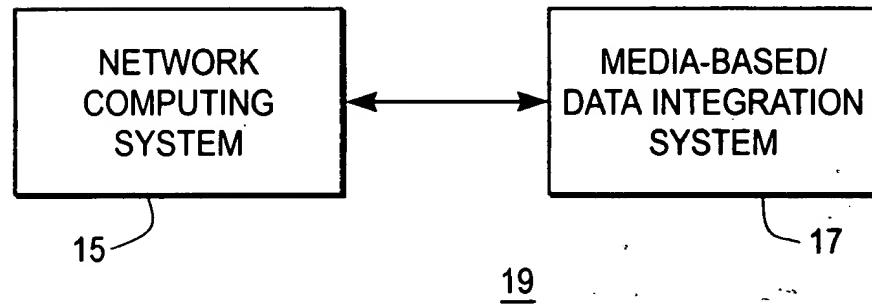


**FIG. 1A**



**FIG. 1B**

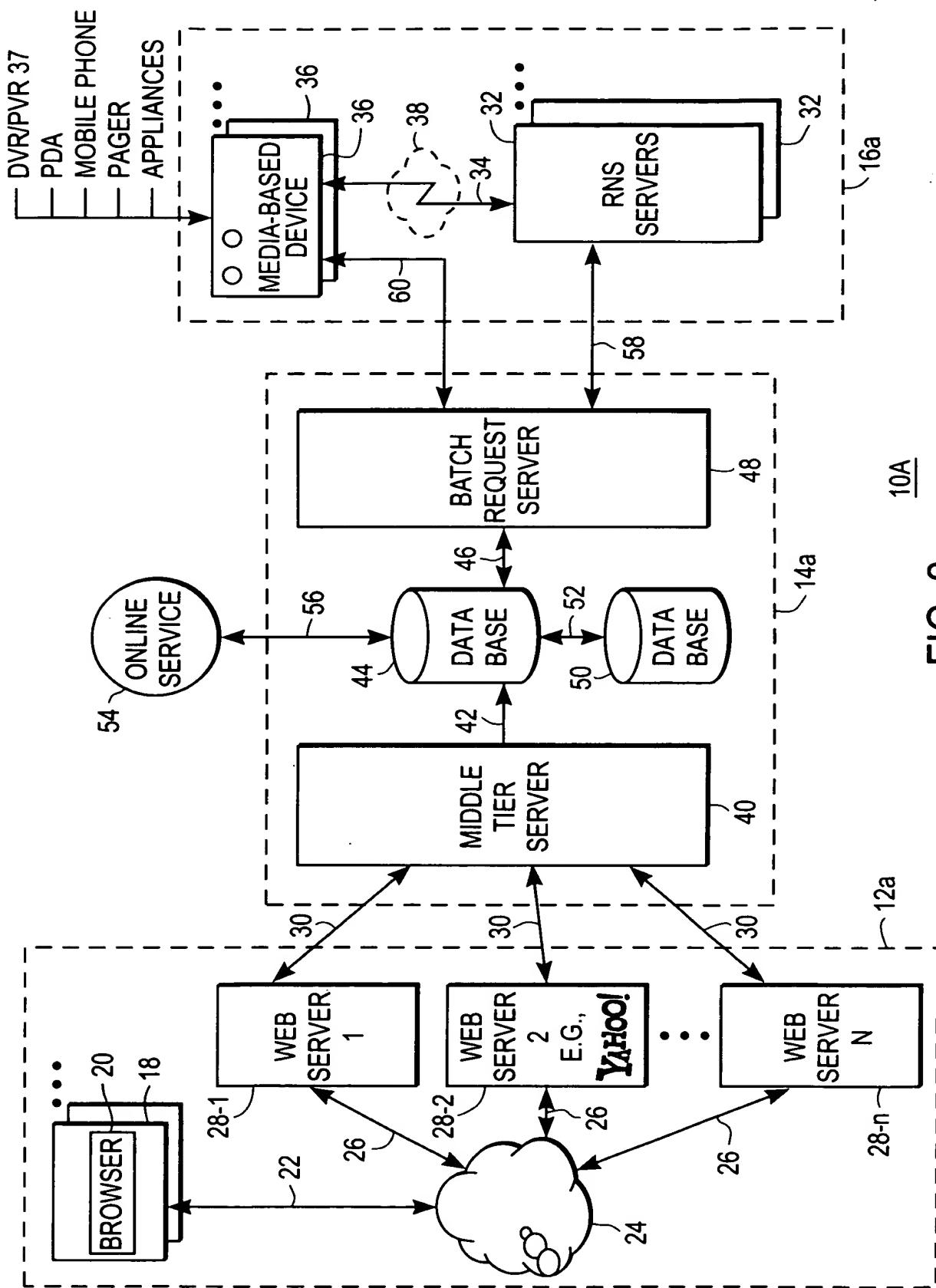


FIG. 2

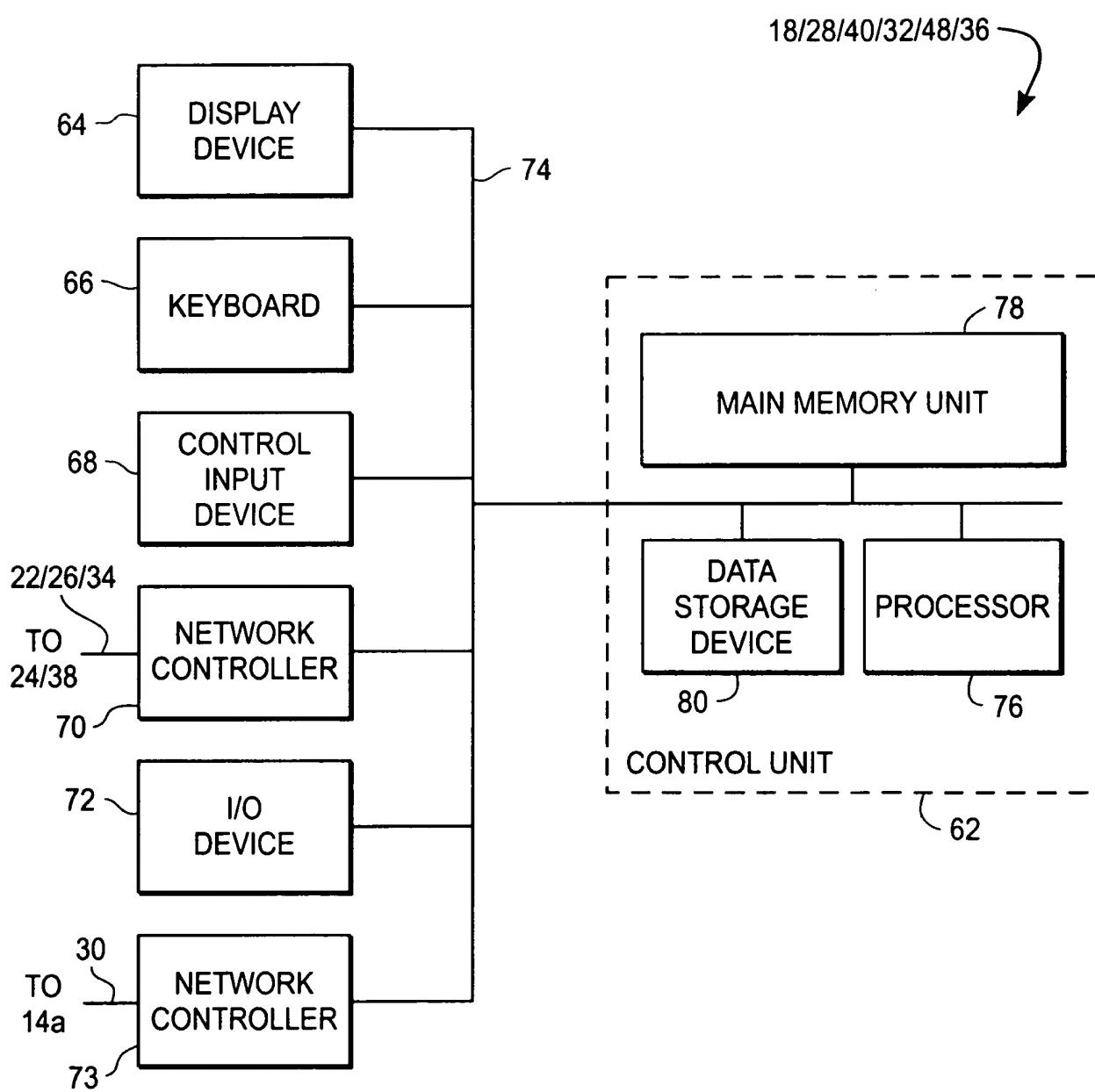


FIG. 3

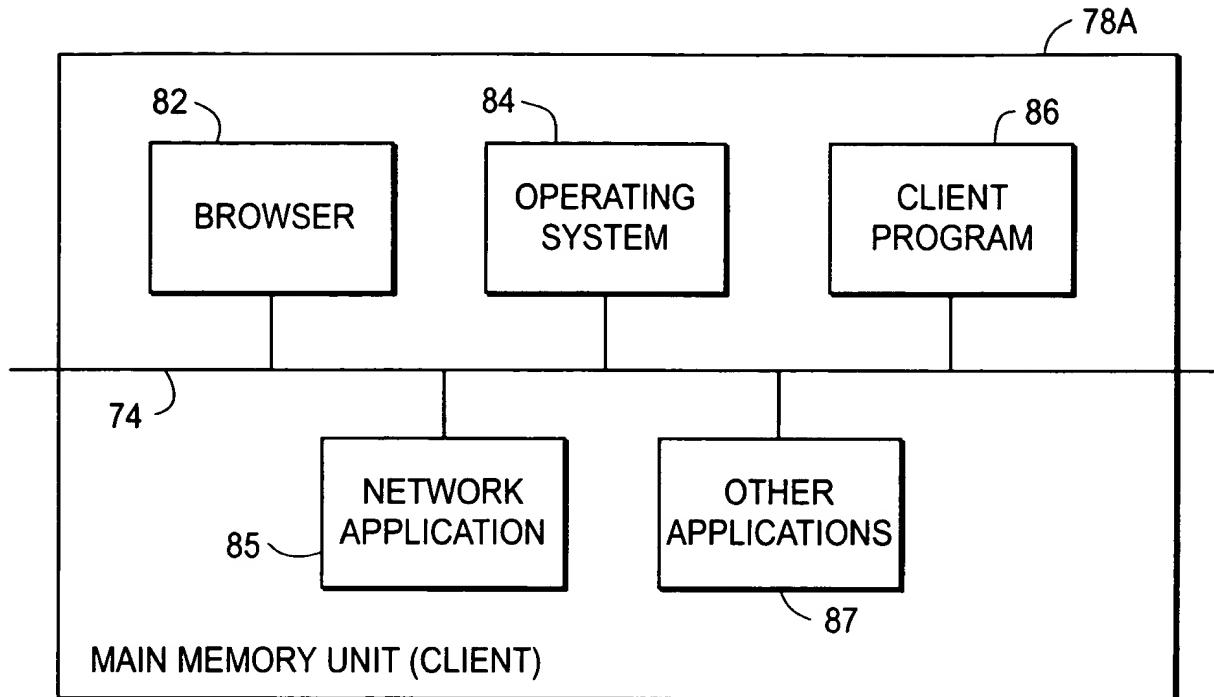


FIG. 4A

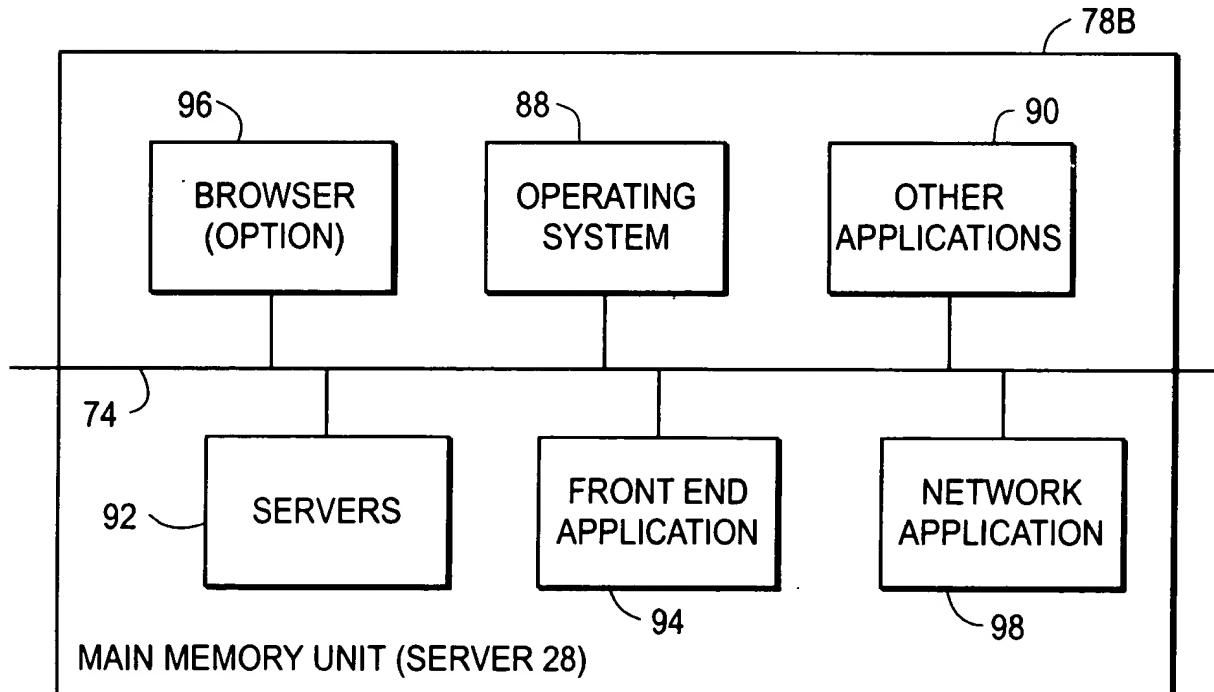


FIG. 4B

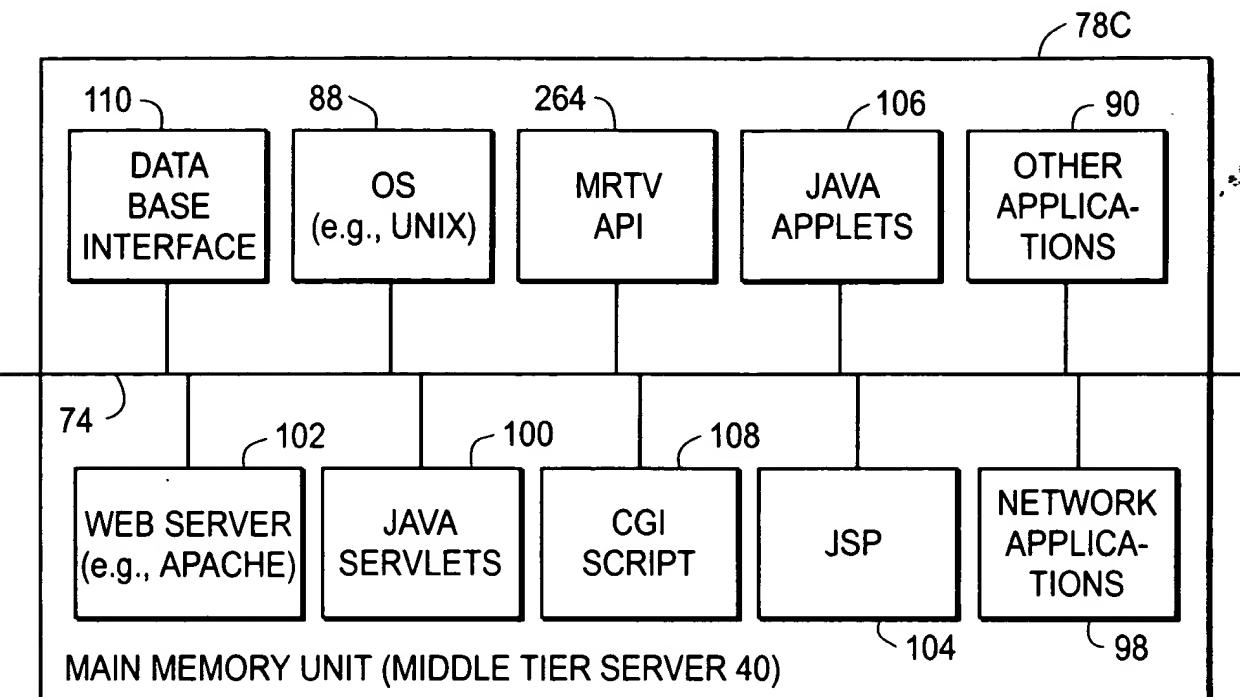


FIG. 4C

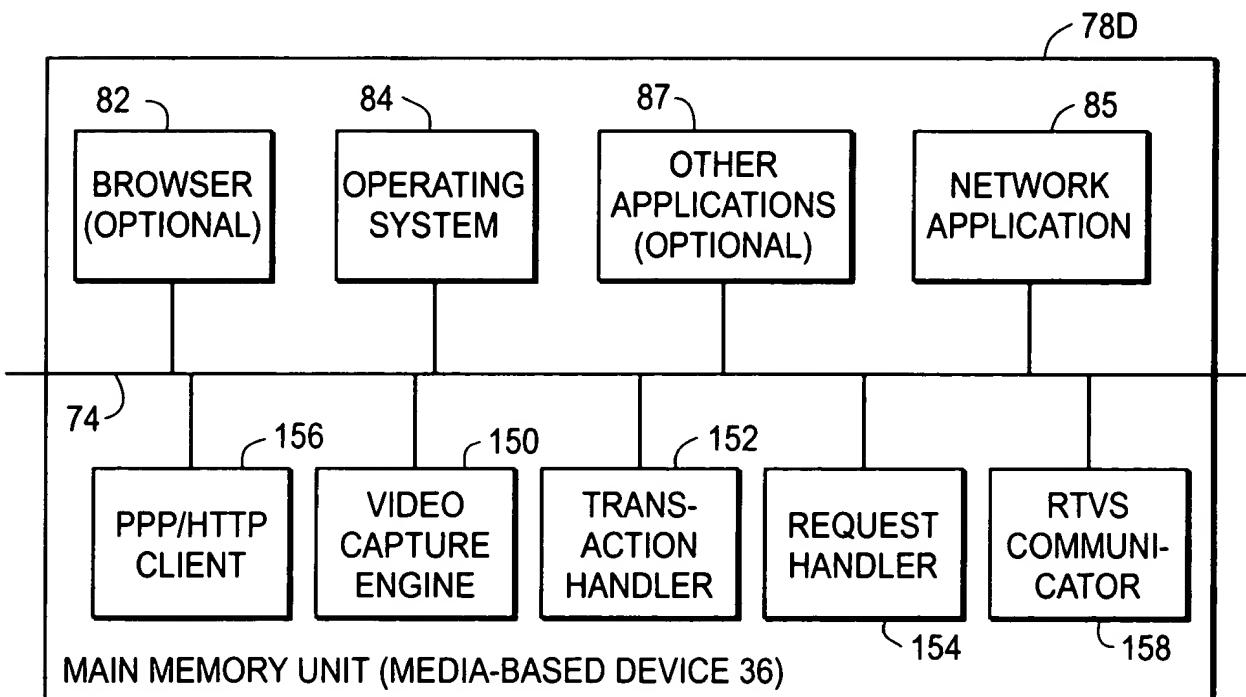


FIG. 4D

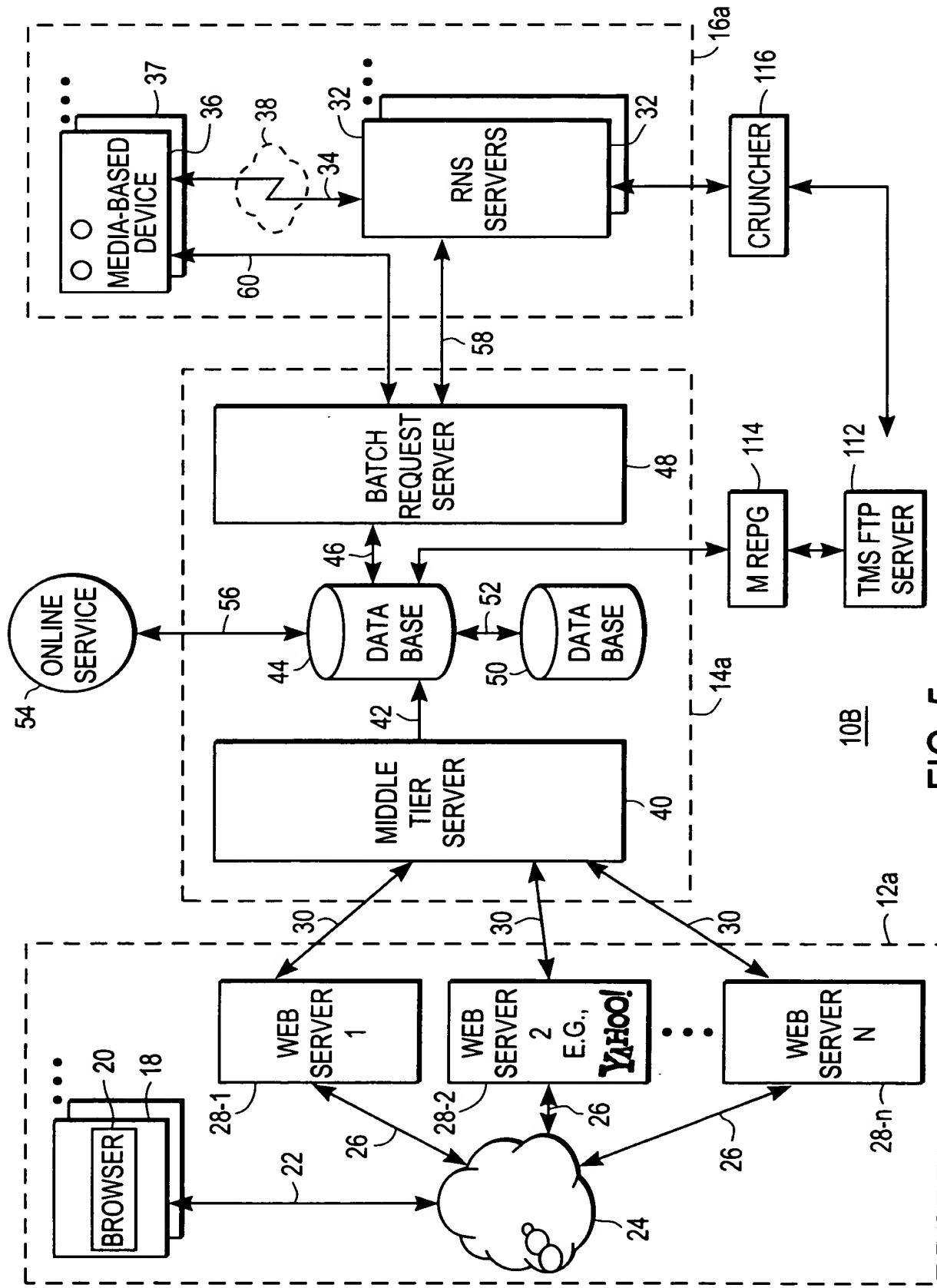


FIG. 5

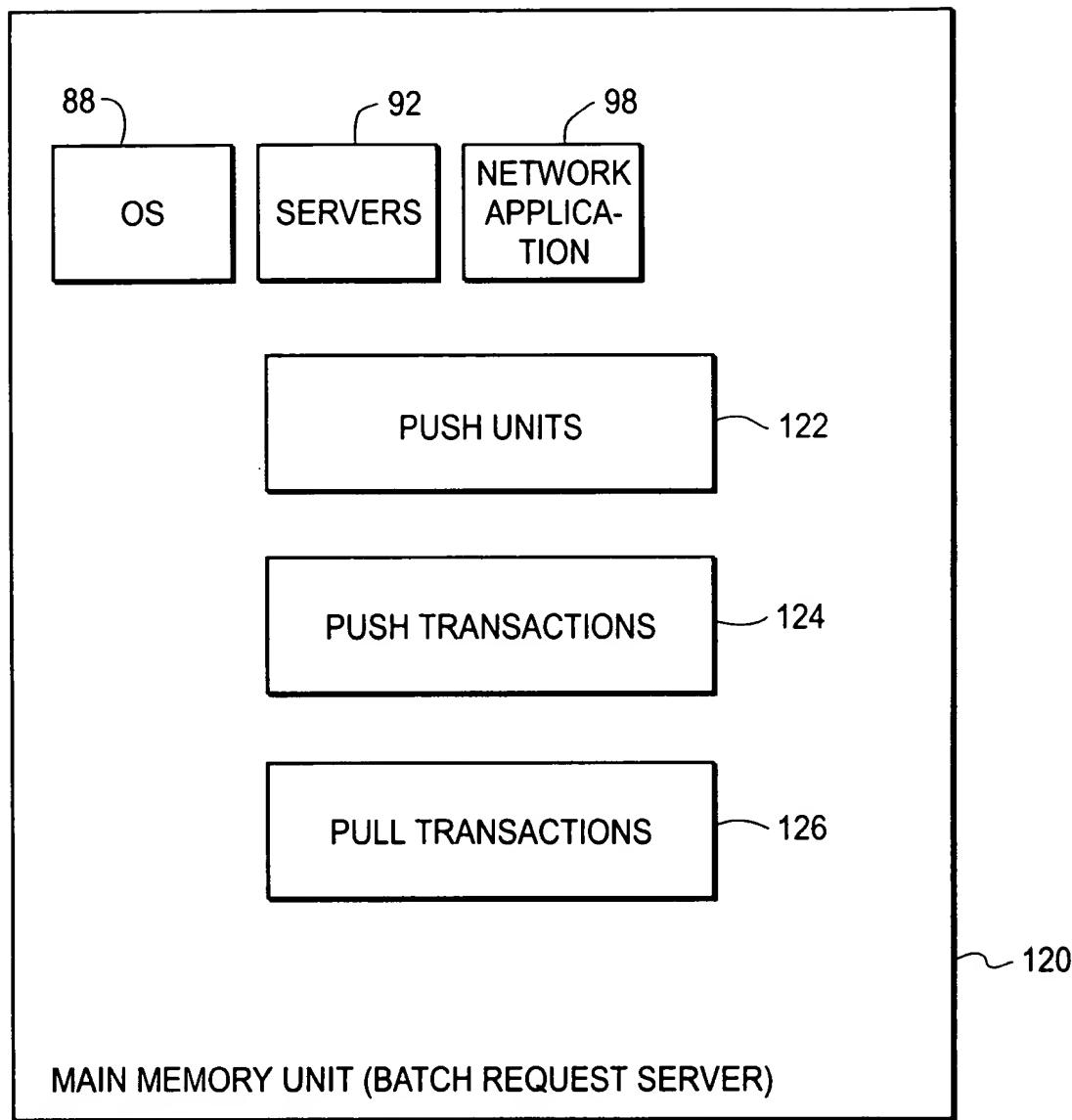


FIG. 6

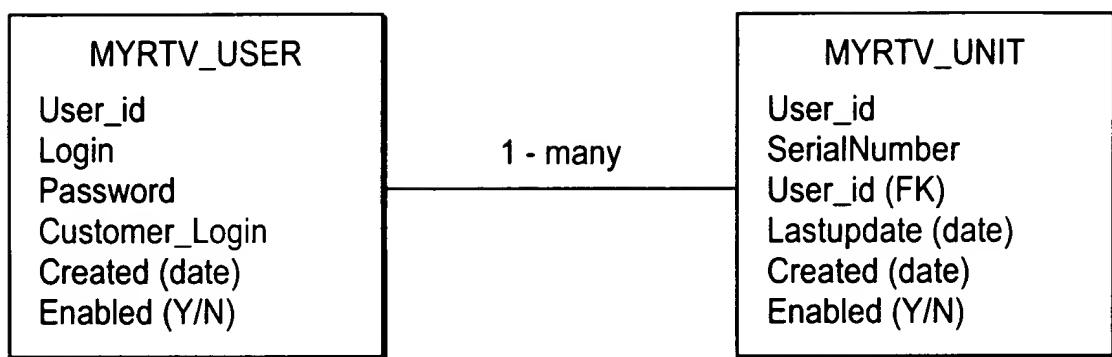


FIG. 7

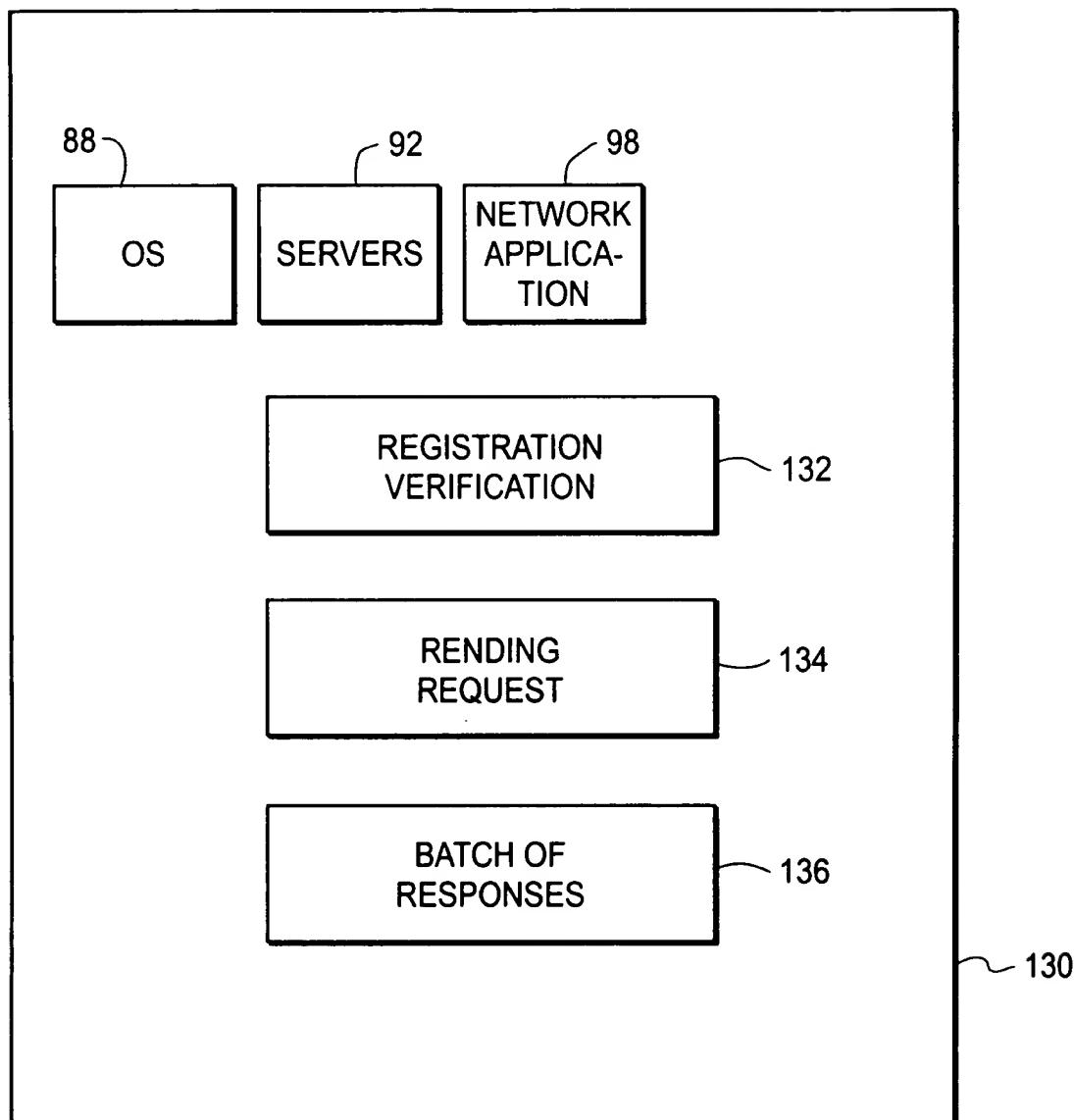


FIG. 8

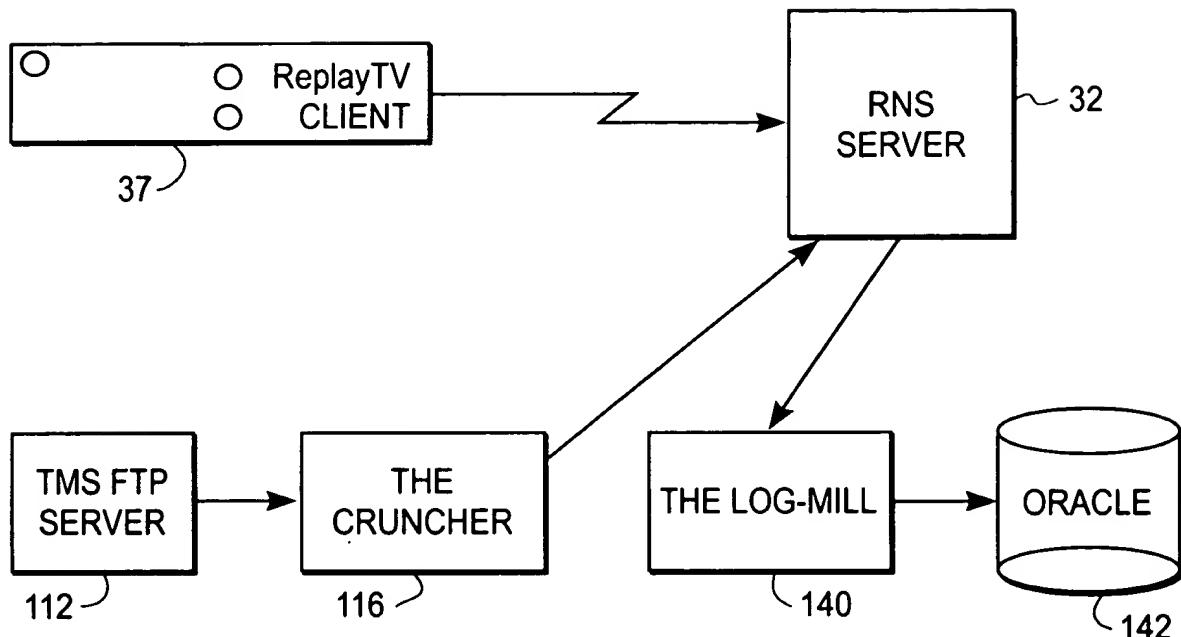


FIG. 9

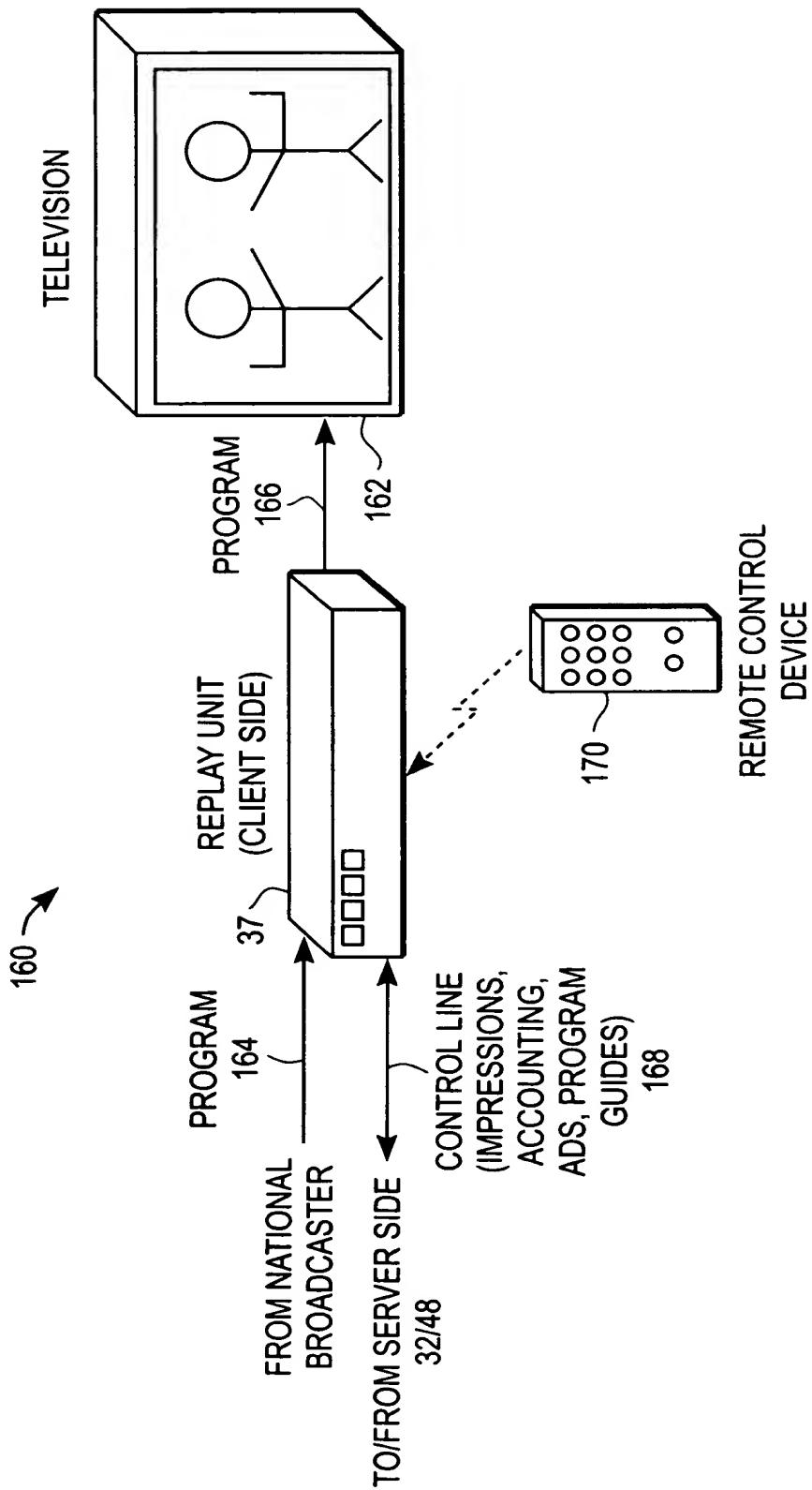


FIG. 10

+

my  replaytv®

marketing/promotional information

---

user name:  sign on

password:

remember my password [I forgot my password](#)

---

Are you a new user to the myreplaytv webpage?

---

[Help](#) [Contact us](#)

182

184

180

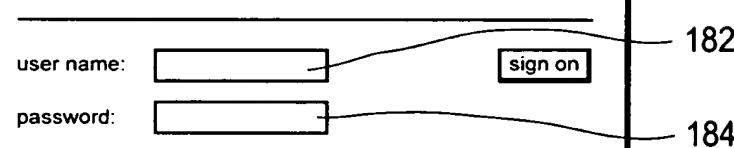


FIG. 11

+

my r replaytv®

Channel Guide    Replay Guide    Find Shows    Manual Record

Preferences    Help    Logout

## Channel Guide

Station	Program	Start Time	End Time	Category
195	[REDACTED]	6:00 PM	6:30 PM	192
Tue 3/06	0 OXYGEN	6:30 PM	Today 03/06	194
1 IN1	An Officer and a Gentleman	6:30 PM	7:00 PM	196
2 KTVU	Me, Myself & Irene	6 O'Clock Ne...	Spin City	197
3 LOOR003	Local Origination	Local Origination	Seinfeld	198
4 KRON	NewsCenter 4 at 6	NewsCenter 4 at 6	Local Origination	199
5 KPIX	CBS News	CBS News	Frasier	200
6 KICU	Home Improve...	Channel 5 Ey...	Scary Movie	201
7 KGO	ABC 7 News at 6PM	The Nanny	Seinfeld	202
8 KTSF	TV Patrol	Balita...	Spin City	203
9 KQED	Zoboomafoo	Nightly Busi...	Local Origination	204
10 KTEH	BBC World Ne..	French Field...	Frasier	205
11 TVGOS	TV Guide	French Field...	Local Origination	206
12 KBHK	The Simpsons	3rd Rock From...	Entertainment...	207
13 KBWB	The Drew Car...	Divorce Cour...	Evening Maga...	208
14 KDTV	Noticias 14	Noticiero Un...	Family Feud	209

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FIG. 12A

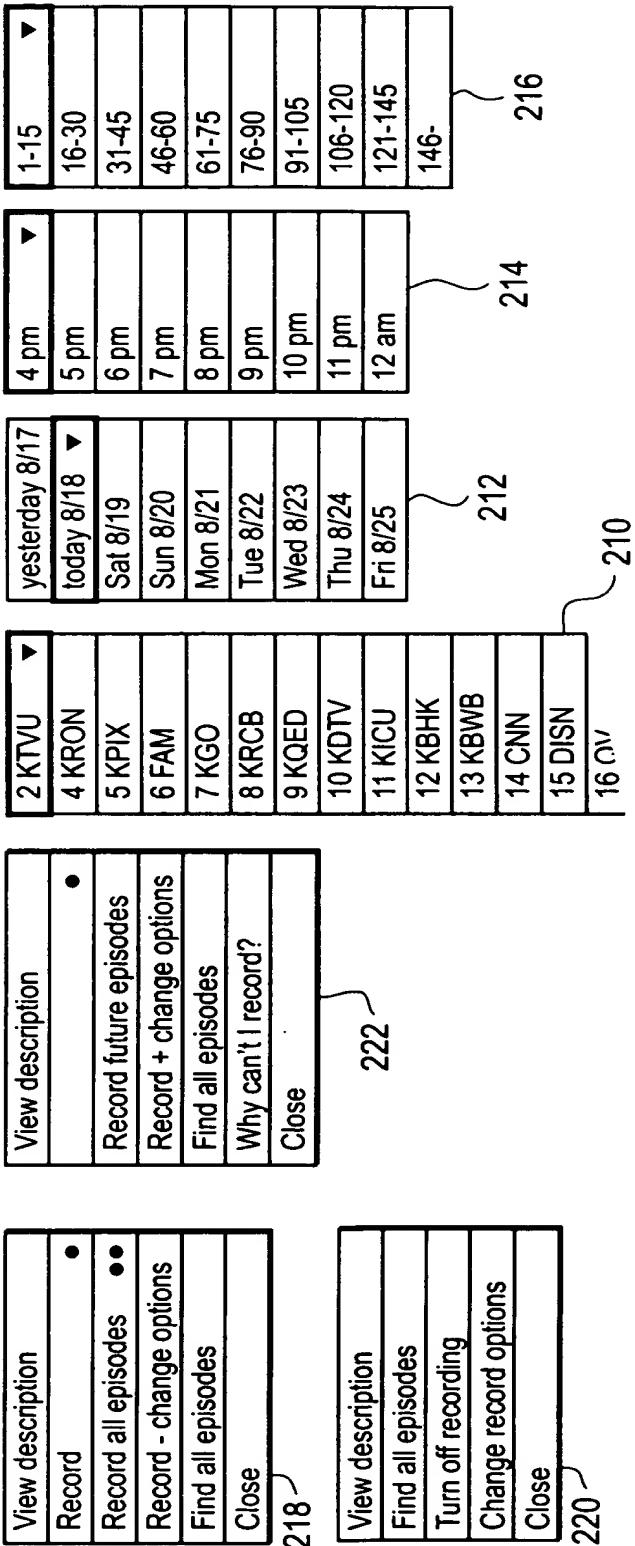


FIG. 12B

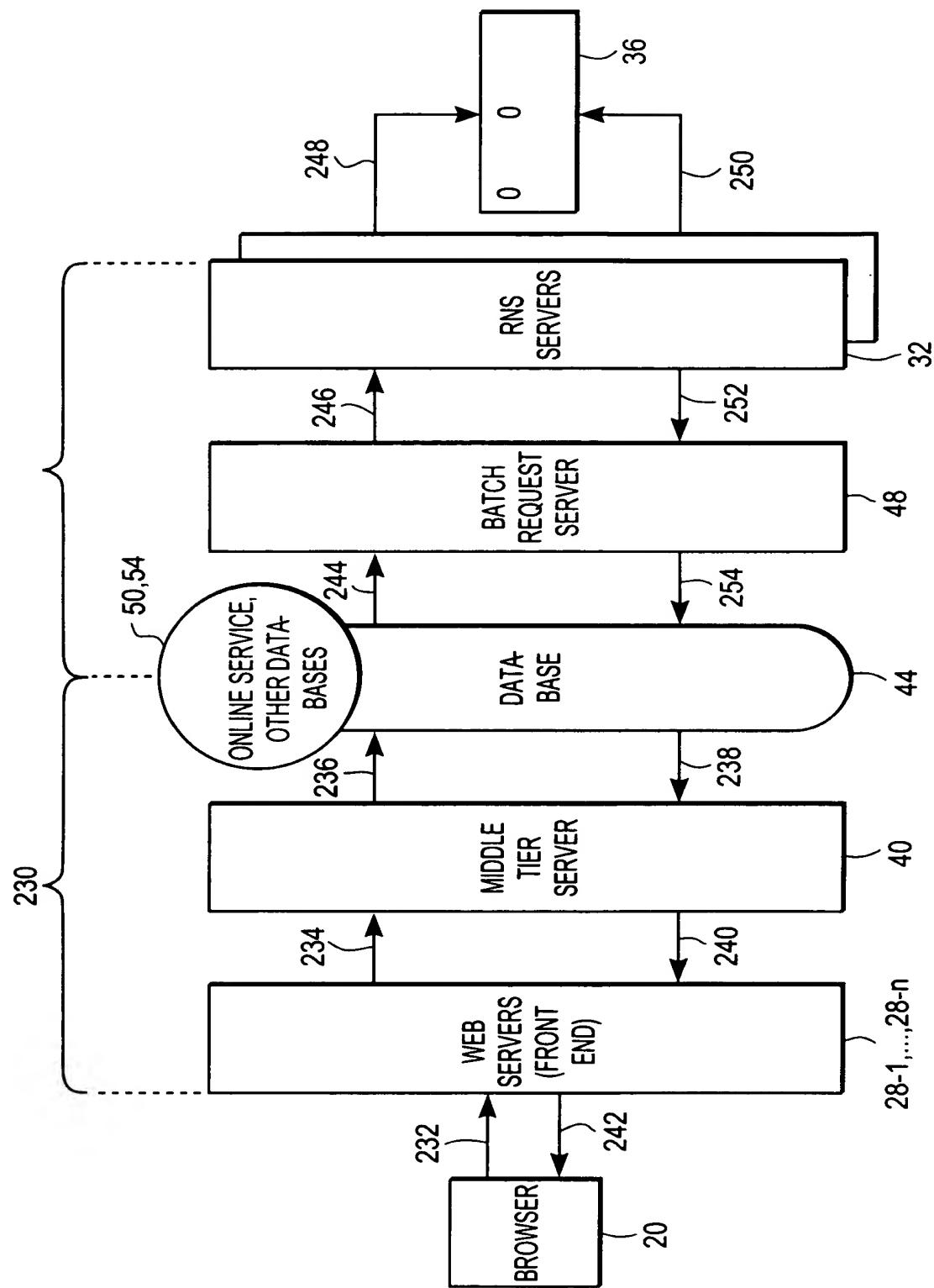


FIG. 13A

SEQUENCE DIAGRAM

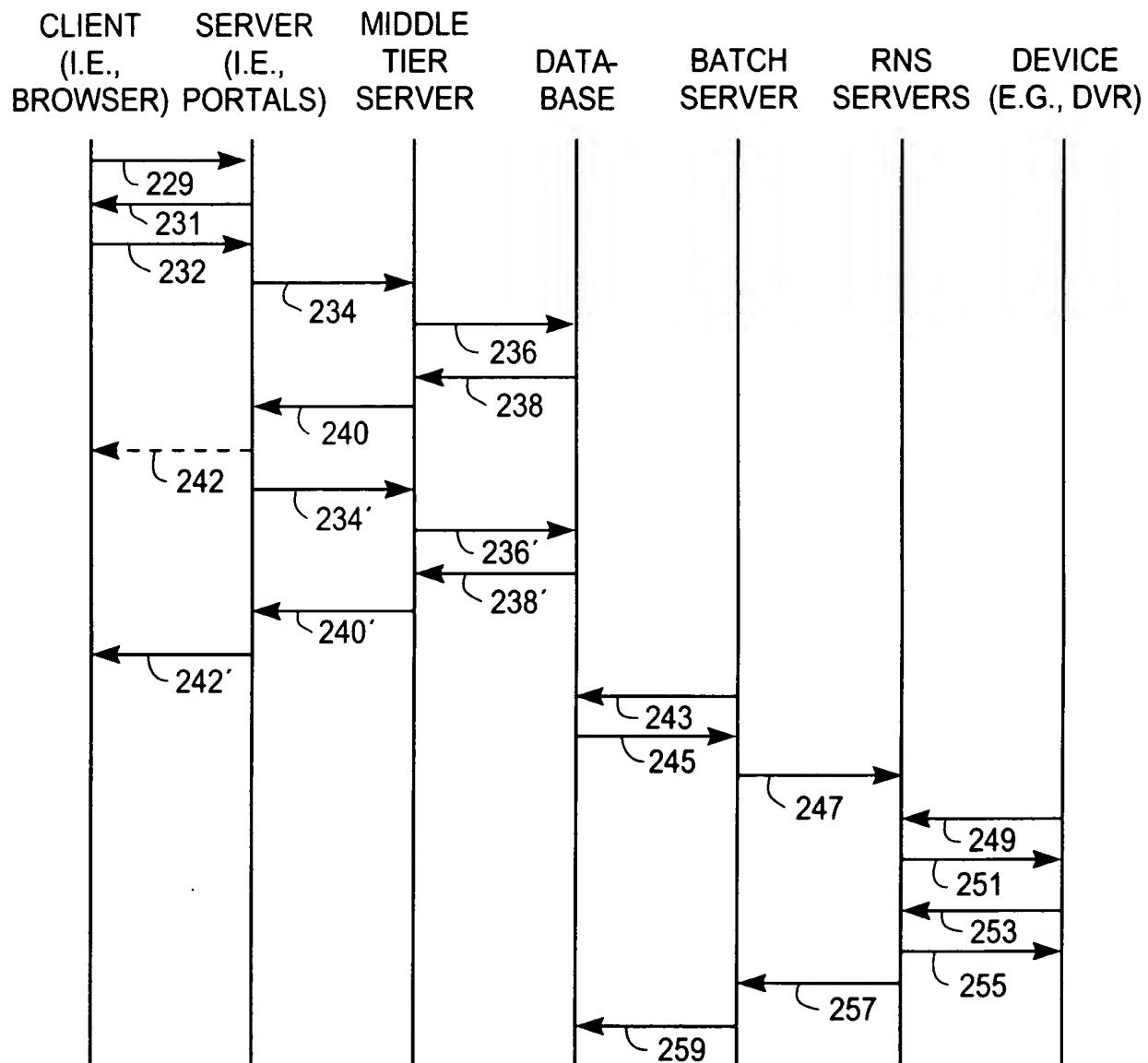


FIG. 13B

API Routine	Function
CreateAccount	Creates an account for a new user based on the information received
Login	Tries to authenticate a user based on the input username and password combination
GetProfile	Returns the profile of the user and his units based on his userid
AddRequest	Adds a request to the unit's list of pending requests based on a set of request parameters, and returns the full status of the unit and of the pending requests, including those for recording specific show(s) and deleting recorded show(s)
DeleteRequest	Delete a request from the user list of pending requests
GetReplayGuide	Returns the Replay Guide of the unit as saved in the appropriate database for the specified unit
GetChannelLineUp	Returns the channel lineup of the unit based on the unit's settings
ChangePassword	Lets the user change his password
GetEPG	Returns the current electronic program guide for the unit based on the settings of the unit
ShowGuide	Returns detailed information about a specified show or search show details for particular shows based on criteria given as parameters

FIG. 14

API Routine	Input Parameters	Output Files (Corresponding XML Elements)
CreateAccount	firstname, lastname, address1, address2, city, state, zipcode, serial number, login, password, creator	ACCOUNT.XML REPLAYERROR.XML
Login	login, password	ACCOUNT.XML REPLAYERROR.XML
GetProfile	userid	PROFILE.XML (USERINFO, UNITINFO-) REPLAYERROR.XML
AddRequest	userid, unitid, retype(none, show, theme, update), retype=show, showtime(single, repeat, manual single, manual repeat), headendid, tmsid, device, starttimegmt, name, durationinminutes, inputsource, quality, guaranteedrecord, numepisodes, weekdayflags, startatminutes, showguamminutes retype=theme, searchterm, searchflags, suzukid, durationinminutes, quality, guaranteedrecord retype=update, updateype(deleteshow, preserveshow, deletechannel), channelid, showid	UNITSTATUS.XML (UNITINFO, REQUESTSTATUS-) REPLAYERROR.XML *Note: REQUESTSTATUS Result:=(PENDING, SENT, SUCCESS, GENERAL FAILURE, SCHEDULEFAILURE, ROOMFAILURE)
DeleteRequest	userid, unitid, requestid	DELETERESULT.XML, REPLAYERERROR.XML
GetReplayGuide	userid, unitid	GUIDE.XML (REPLAYCHANNEL-), REPLAYERERROR.XML *Note: REPLAYCHANNEL Type=(SINGLE, SINGLEMANUAL, REPEAT, REPEATMANUAL, THEME, THEMEEXACT, ZONE)
GetChannelLineUp	userid, unitid	CHANNELLINEUP.XML (CHANNEL-), REPLAYERERROR.XML
ChangePassword	userid, currentpassword, newpassword	ACCOUNT.XML, REPLAYERERROR.XML
GetEPG	userid, unitid, starttimegmt, durationinminutes, startchannel, channelcount	XML file based on tvguide did & tvprograms did REPLAYERERROR.XML
ShowGuide	userid, unitid, query, start, count, levelofdetail *Note: query keywords include actor, advisory, desc, mparating, title, etc.	XML file based on tvguide did & tvprograms did REPLAYERERROR.XML

FIG. 15

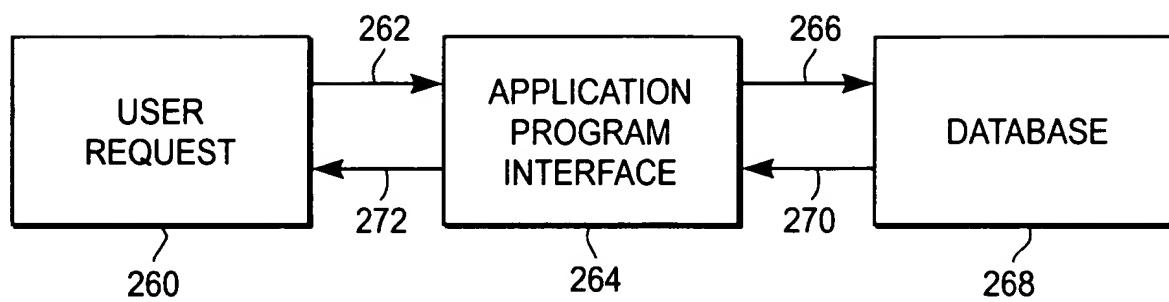


FIG. 16A

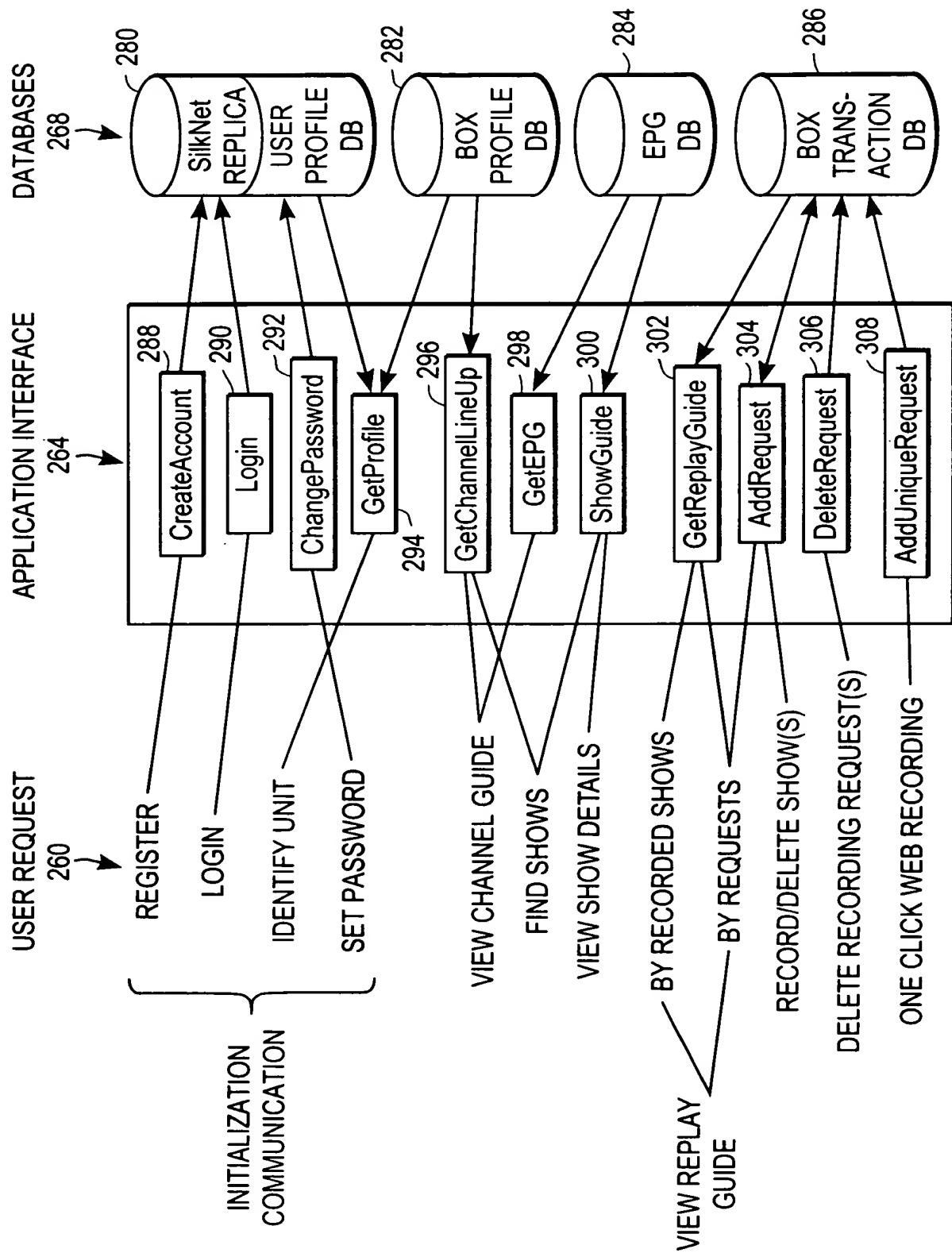


FIG. 16B

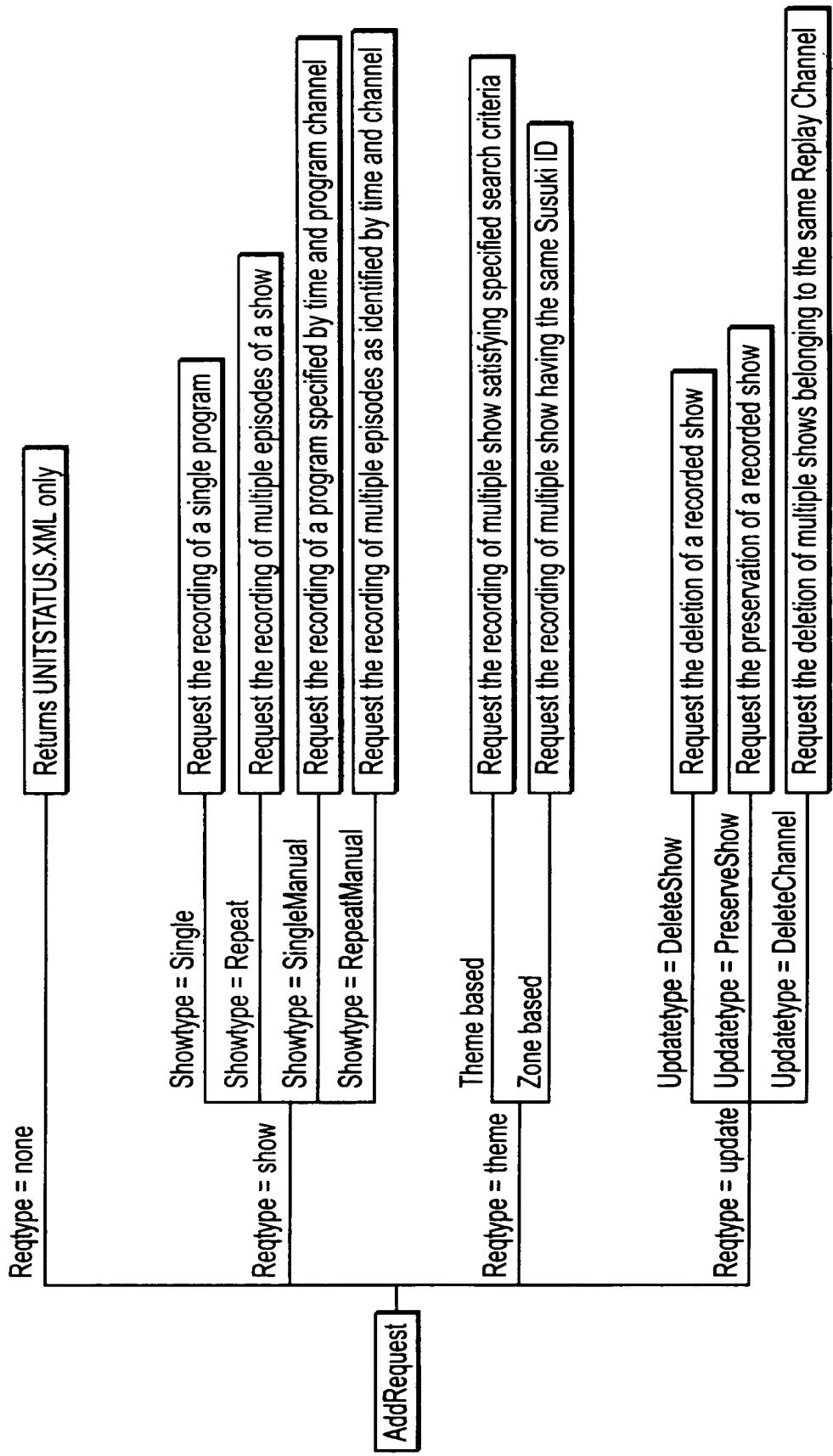
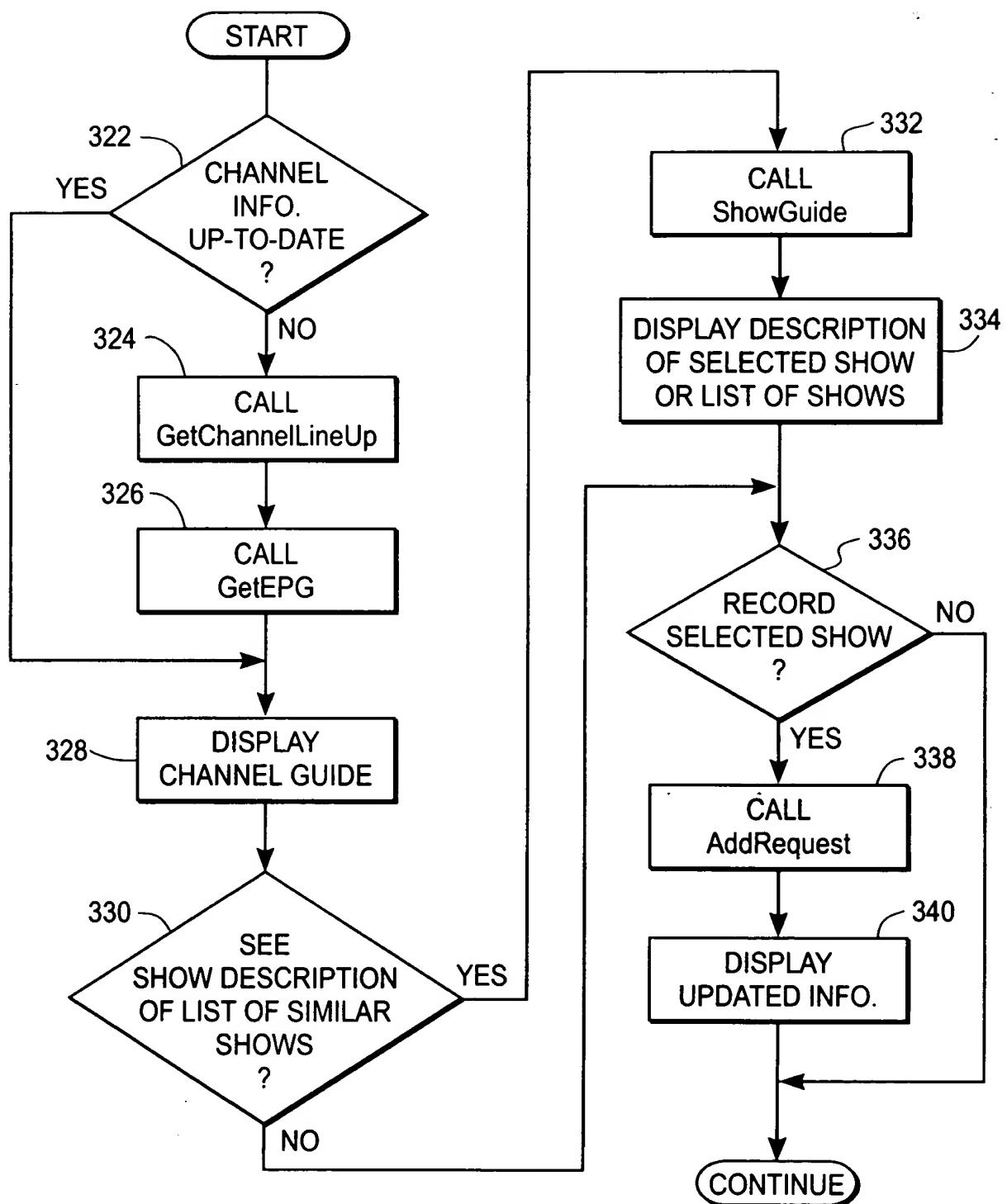


FIG. 17



320

FIG. 18

350

**my r replaytv®**

**Replay Guide**

Channel Guide    Replay Guide    Find Shows    Manual Record

Preferences    Help    Logout

Replay Shows    Replay Channels

Review and edit your one time and recurring ReplayTV requests

**Delete Selected Channels**

Channel	Details	Status	Request Date
<input type="checkbox"/> <b>A Fistful of Dollars</b>	This single record Replay channel was scheduled to record A Fistful of Dollars from Channel 21 (TBS) on Sun, 02/18 at or around 7:00AM - 9:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		02/18
<input type="checkbox"/> <b>Blown Away</b>	This single record Replay channel was scheduled to record Blown Away from Channel 42 (USAP) on Tue, 01/16 at or around 9:00PM - 11:30PM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		01/16
<input type="checkbox"/> <b>Cantonesse News</b>	This show-based Replay channel will continuously record the 1 most current episode(s) of Cantonesse News occurring every (Sun, Mon, Tue, Wed, Thu, Fri, Sat) on Channel 8 (KTSF) at or around 8:00PM - 9:00PM. Guaranteed at EXTENDED quality.		02/28
<input type="checkbox"/> <b>Captain January</b>	This single record Replay channel was scheduled to record Captain January from Channel 49 (AMC) on Tue, 01/09 at or around 3:30AM - 5:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		01/09

FIG. 19A

my  **Replay Guide**

Replay Shows      Channel Guide      Replay Guide      Find Shows      Preferences      Help      Logout      Manual Record

Review and edit recordings saved to your ReplayTV unit

Channel	Show Title/Episode	Date/Time	Station	Duration	Size
A Fistful of Dollars	<input type="checkbox"/> A Fistful of Dollars 02/18 7:00AM	21 TBS	(2h)	6.46%	
Blown Away	<input type="checkbox"/> Blown Away	01/16 9:00PM	42 USAP	(2h 30m)	8.07%
Captain January	<input type="checkbox"/> Captain January	01/19 3:30AM	49 AMC	(1h 30m)	4.84%
Firewalker	<input type="checkbox"/> Firewalker	02/27 8:00PM	21 TBS	(2h)	6.46%
On Deadly Ground	<input type="checkbox"/> On Deadly Ground	01/07 9:00PM	4 KRON	(2h)	6.46%
Platoon	<input type="checkbox"/> Platoon	02/04 8:00PM	37 TNTP	(2h 30m)	8.07%
The Bridge on the River Kwai	<input type="checkbox"/> The Bridge on the River Kwai	12/24 8:00AM	42 USAP	(3h 30m)	11.30%
The Little Princess	<input type="checkbox"/> The Little Princess	12/26 4:15AM	49 AMC	(1h 45m)	5.65%
The Trouble With Harry	<input type="checkbox"/> The Trouble With Harry	12/18 1:05PM	49 AMC	(1h 55m)	6.19%
Welcome to ReplayTV	<input type="checkbox"/> Welcome to ReplayTV	09/08 10:49AM		(15m)	2.42%

FIG. 19B

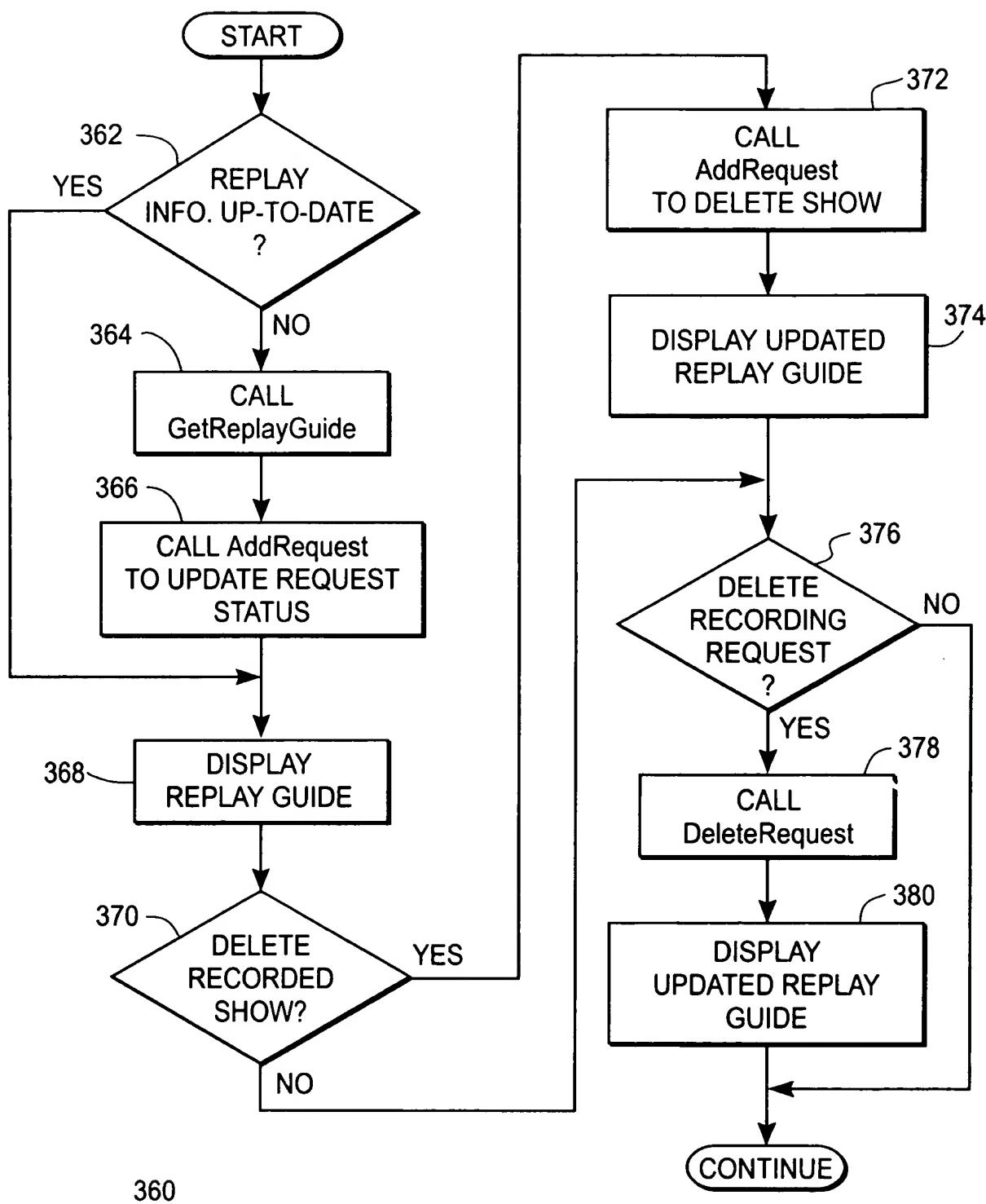


FIG. 20

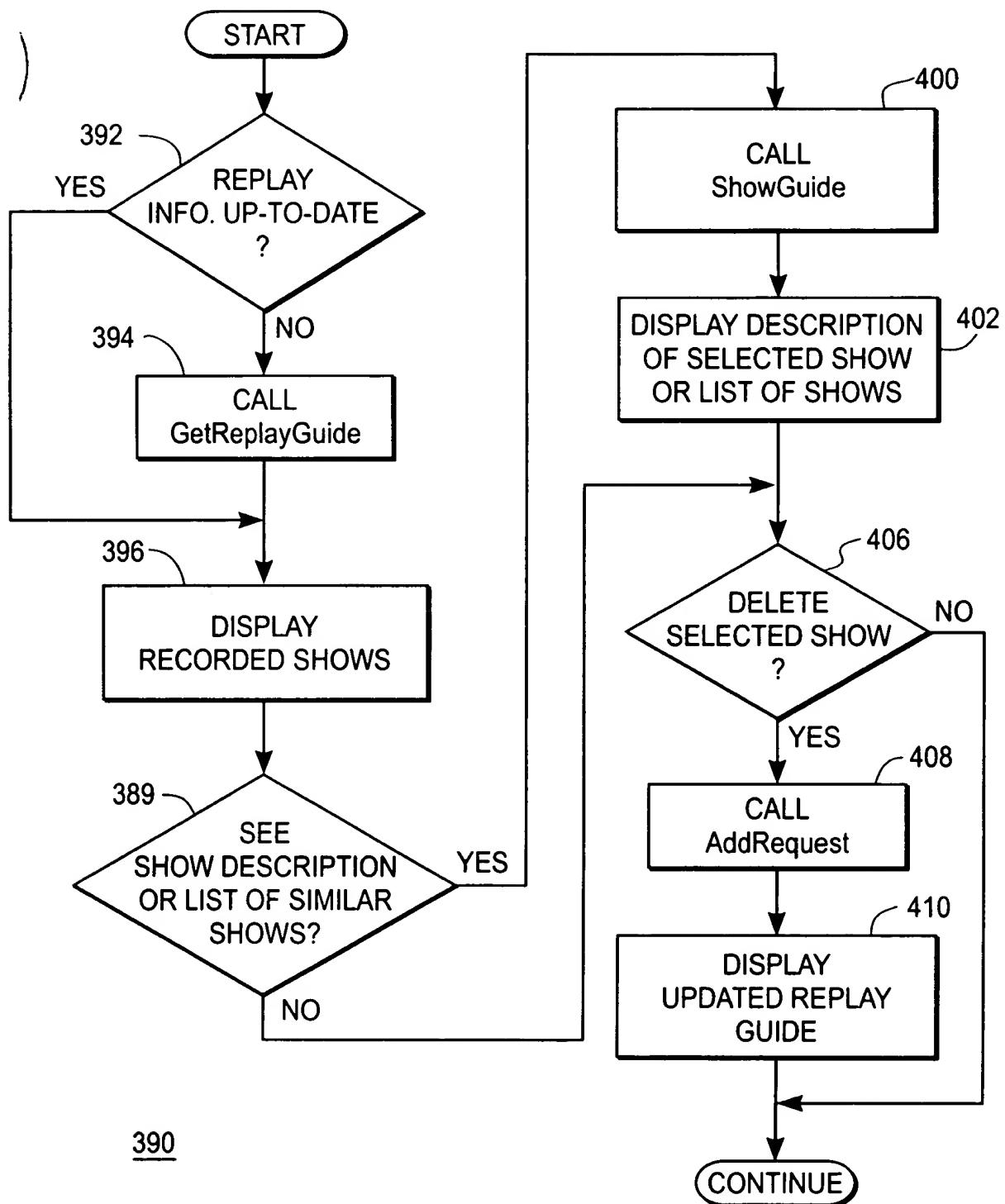


FIG. 21

The screenshot shows the 'Find Shows' search interface. At the top left is the 'myrreplaytv®' logo. To its right is a horizontal navigation bar with links: 'Channel Guide', 'Replay Guide', 'Find Shows' (which is the active tab, indicated by a red border), 'Manual Record', 'Help', and 'Logout'. Below the navigation bar is the main search area. It features a large input field labeled 'Find:' followed by a placeholder text 'Enter the word or phrase that you wish to find.' To the right of the input field is a section titled 'In these categories:' with three checkboxes: 'Show Titles' (checked), 'Actors' (unchecked), 'Descriptions' (checked), and 'Directors' (unchecked). Further down the page, there is a large empty rectangular area, likely a placeholder for search results. At the bottom right of the page is a link 'Find Shows'.

myrreplaytv®

Find Shows

Channel Guide   Replay Guide   Find Shows   Manual Record   Help   Logout

Find:

Enter the word or phrase that you wish to find.

In these categories:

Show Titles    Actors  
 Descriptions    Directors

Find Shows

FIG. 22

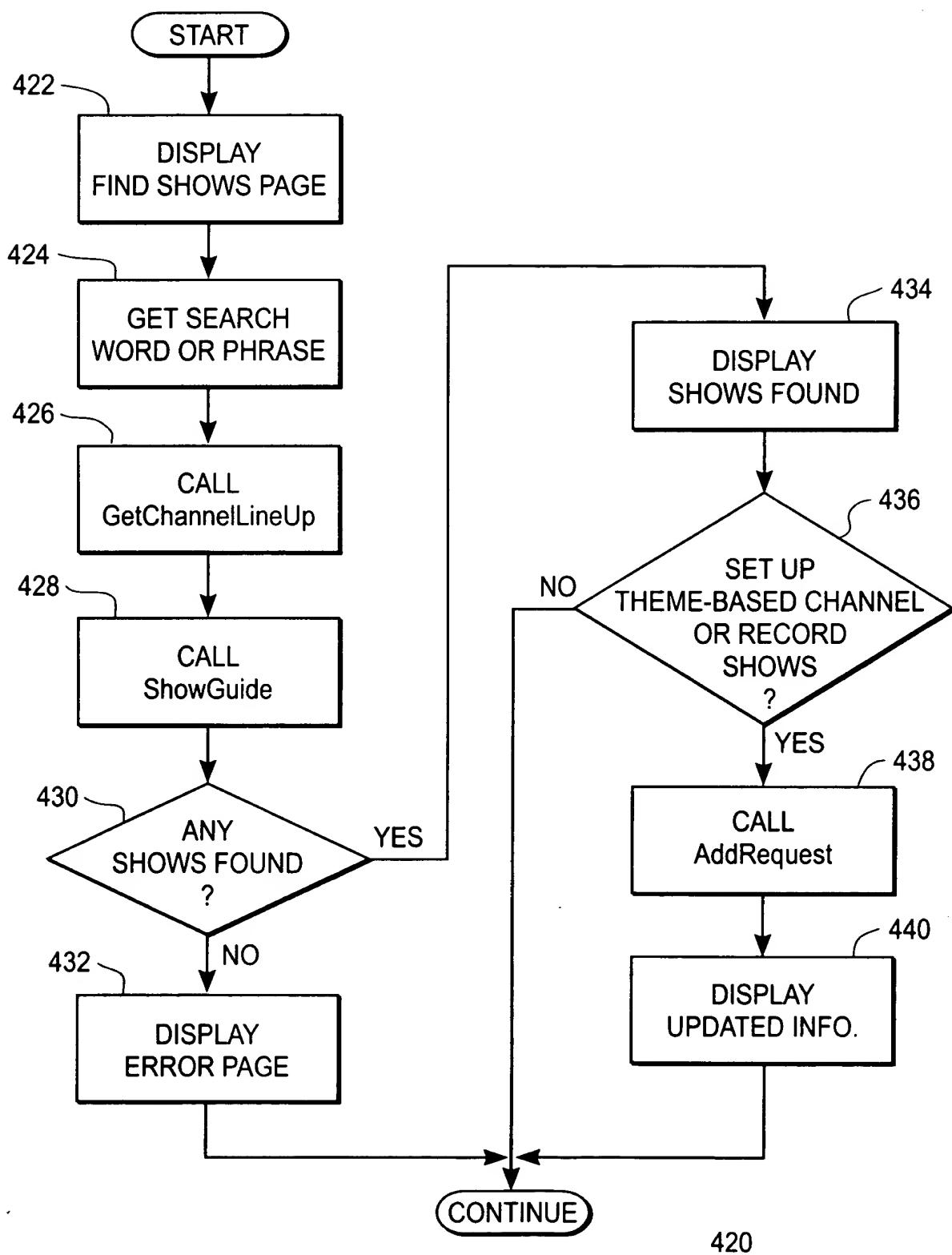


FIG. 23

my r replaytv®

Channel Guide      Replay Guide      Find Shows      Manual Record

Preferences      Help      Logout

**Manual Record**

Single Recording      Repeat Recording

Start Date: Mar □ 7 □ 2001 ▾

Start Time: □ : □ AM ▾

End Time: □ : □ AM ▾

Recording duration:

Channel: OXYGEN ▾

Quality: Extended ▾

Guaranteed: Yes ▾

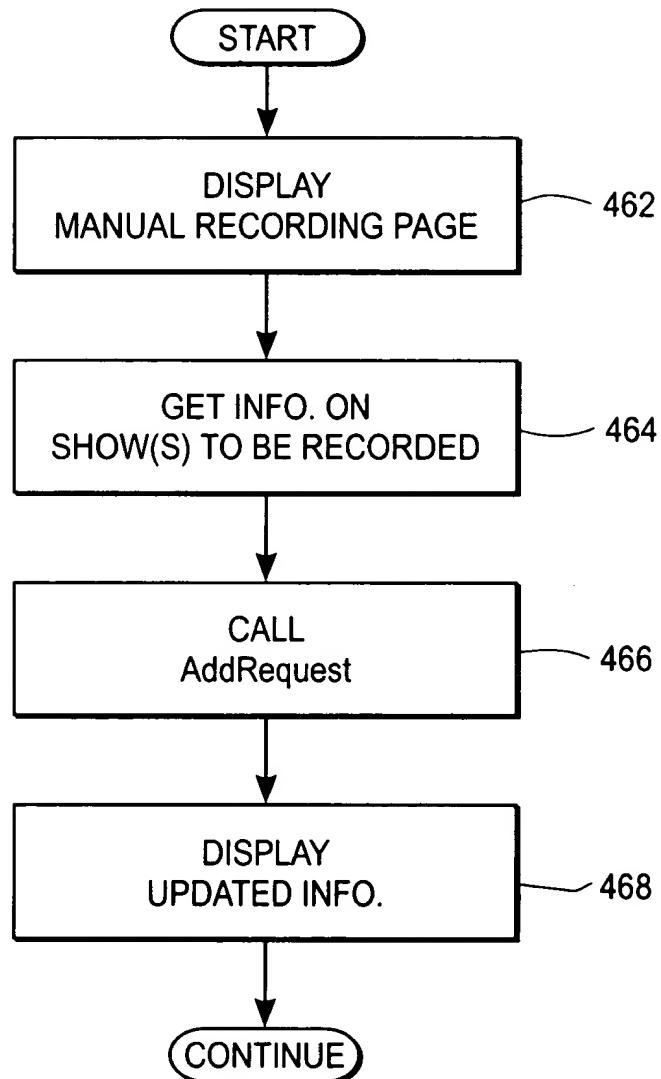
**Submit Requests**

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FIG. 24A      450

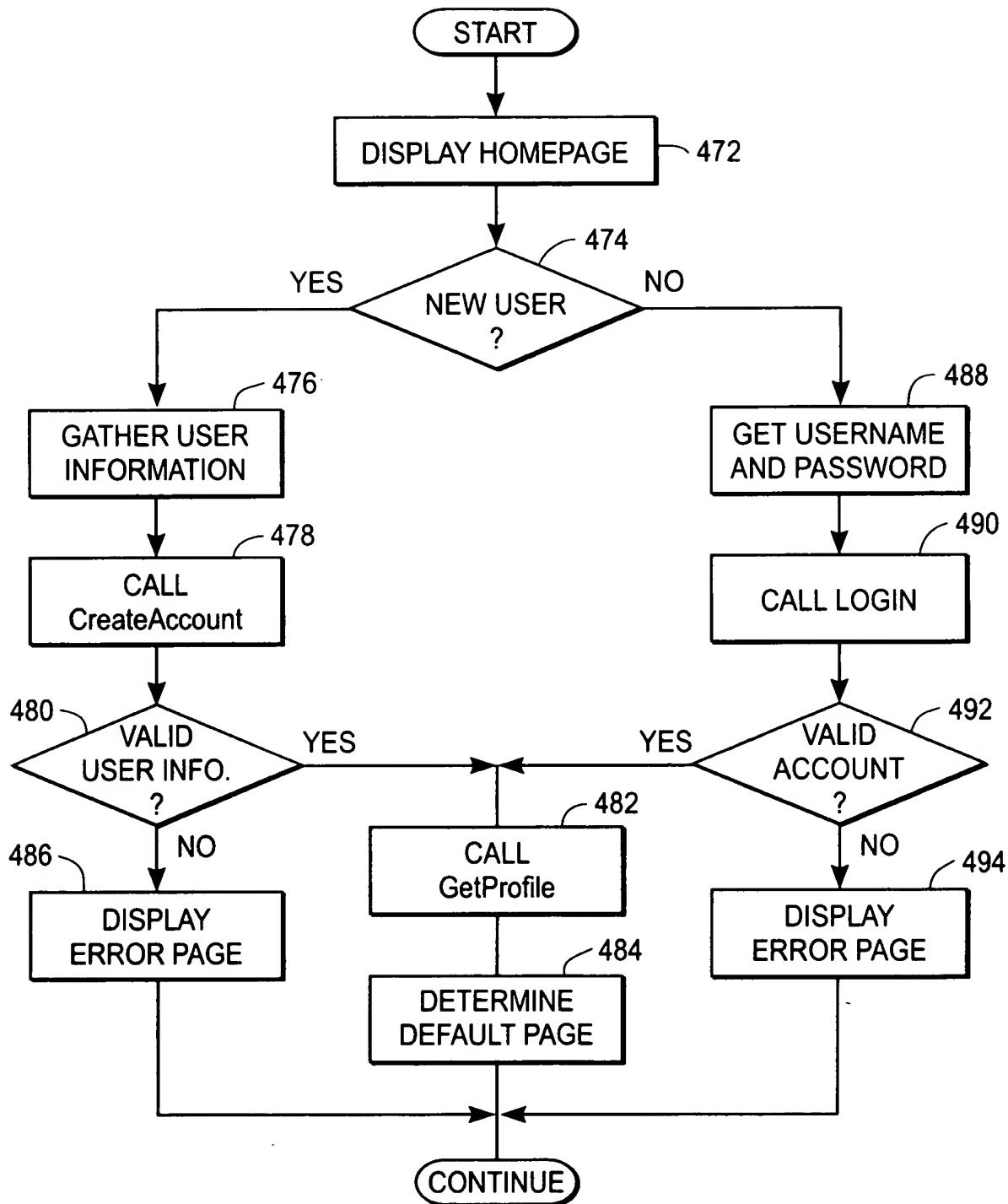
<b>my r replaytv®</b>	<a href="#">Channel Guide</a>	<a href="#">Find Shows</a>	<a href="#">Manual Record</a>	<a href="#">Replay Guide</a>	<a href="#">Preferences</a>	<a href="#">Help</a>	<a href="#">Logout</a>		
<b>Manual Record</b>									
<b>Single Recording</b> <a href="#">Repeat Recording</a>									
3h 45m available at medium quality as of last connection									
<b>Days</b>	<input type="checkbox"/> Mon	<input checked="" type="checkbox"/> Tue	<input type="checkbox"/> Wed	<input type="checkbox"/> Thu	<input type="checkbox"/> Fri	<input type="checkbox"/> Sat	<input type="checkbox"/> Sun		
<b>Start Time</b>	<input type="text" value="7"/>	<input type="text" value="58"/>	<input checked="" type="checkbox"/> PM	<input type="checkbox"/> AM	<b>End Time</b>	<input type="text" value="11"/>	<input type="text" value="02"/>	<input checked="" type="checkbox"/> PM	<input checked="" type="checkbox"/> AM
<b>Channel</b>	<input type="text" value="4 KRON"/> <input checked="" type="checkbox"/>								
<b>Quality</b>	<input checked="" type="checkbox"/> Standard								
<b>Guaranteed</b>	<input checked="" type="checkbox"/> Yes								
<b>Submit Request</b>									

FIG. 24B  
452



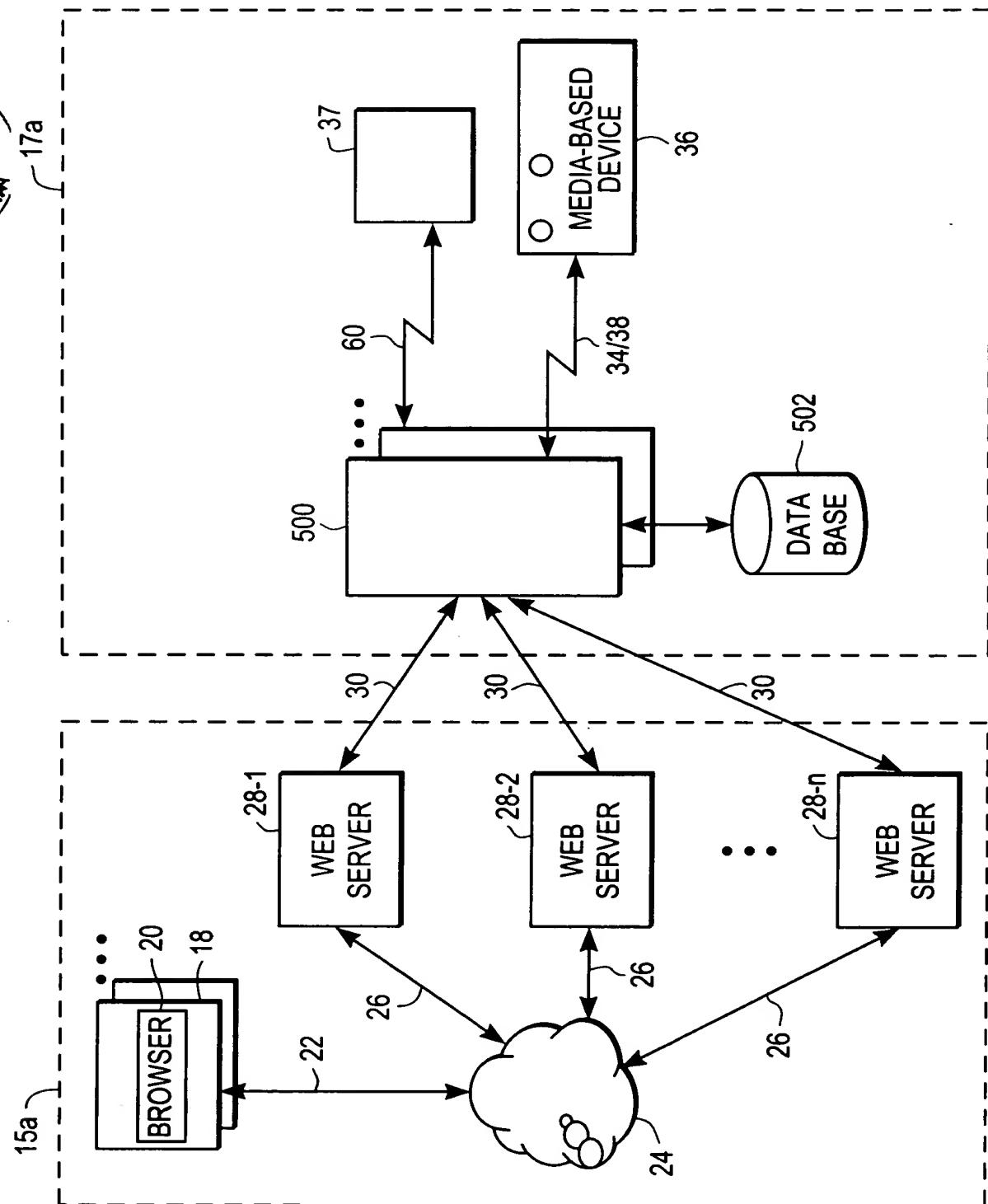
460

FIG. 25



470

FIG. 26



**FIG. 27**

**19A**

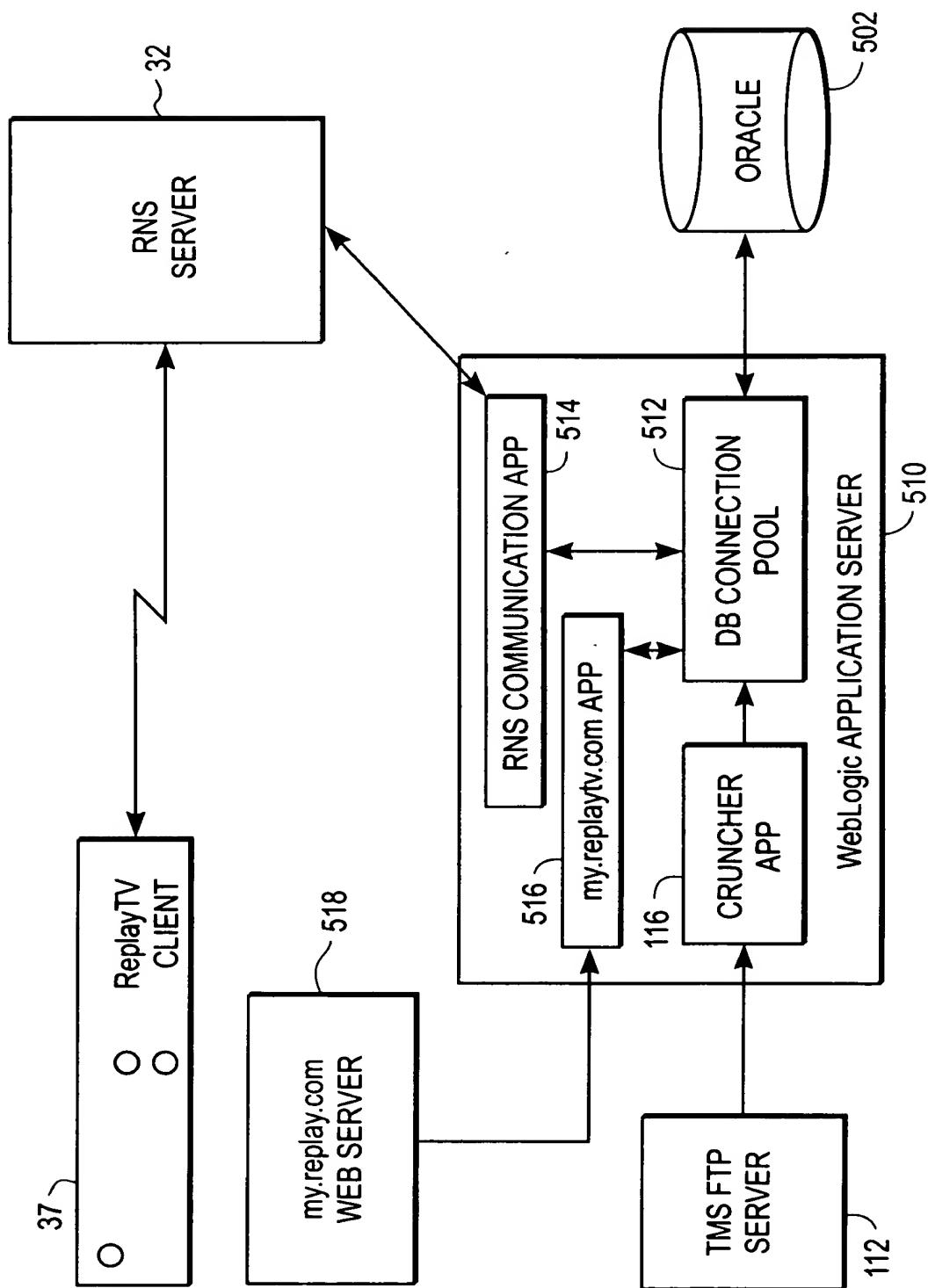


FIG. 28

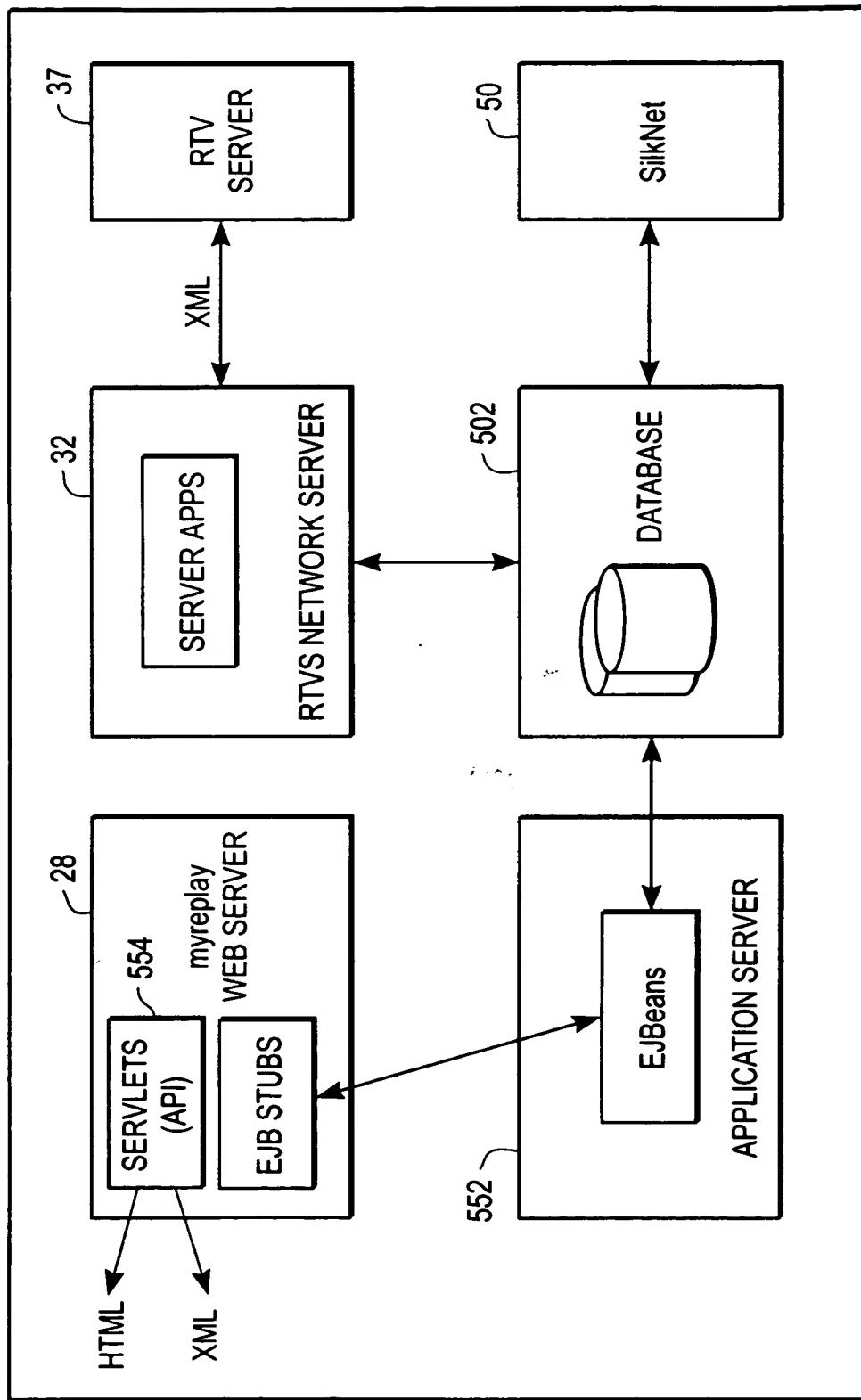


FIG. 29

550 →

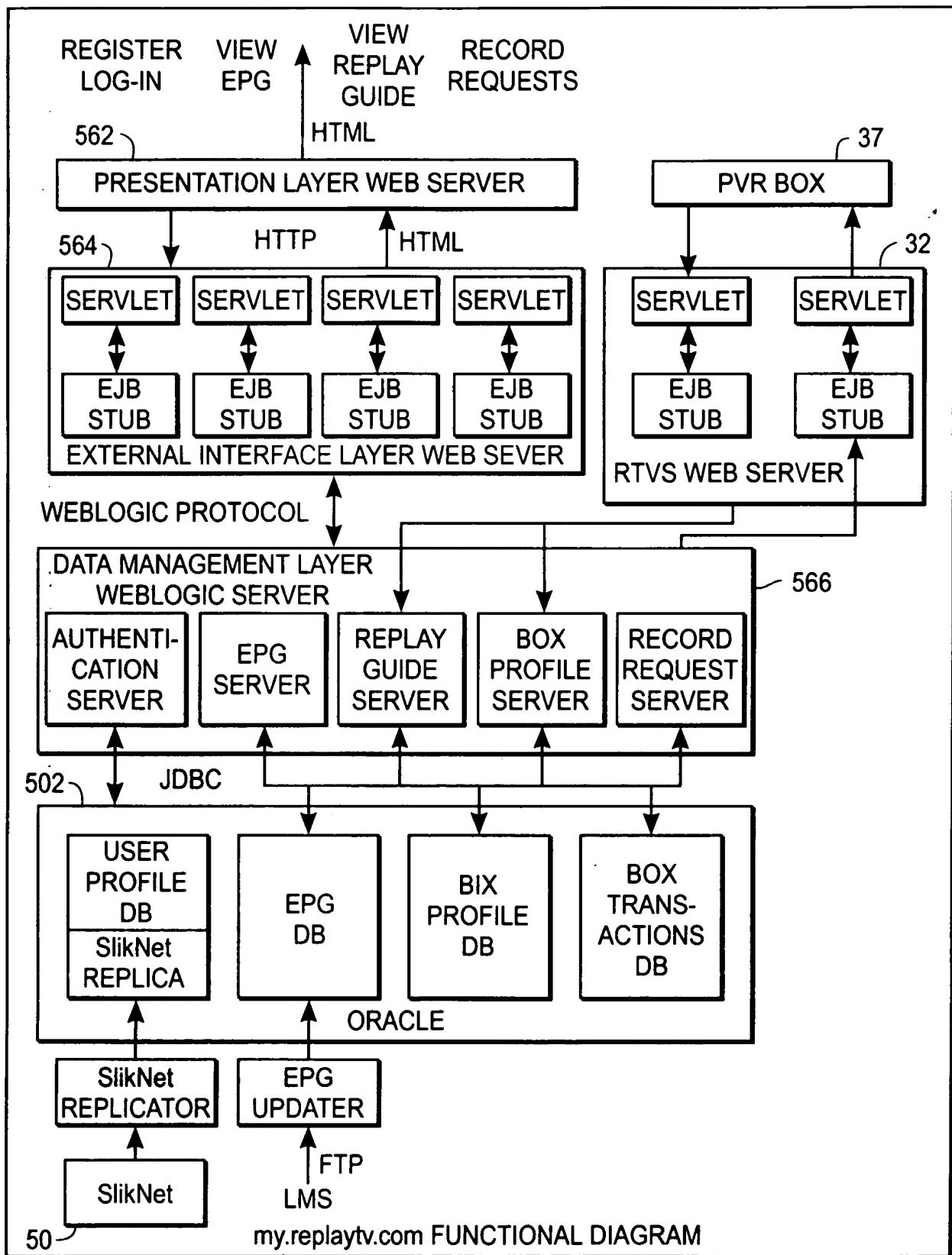


FIG. 30

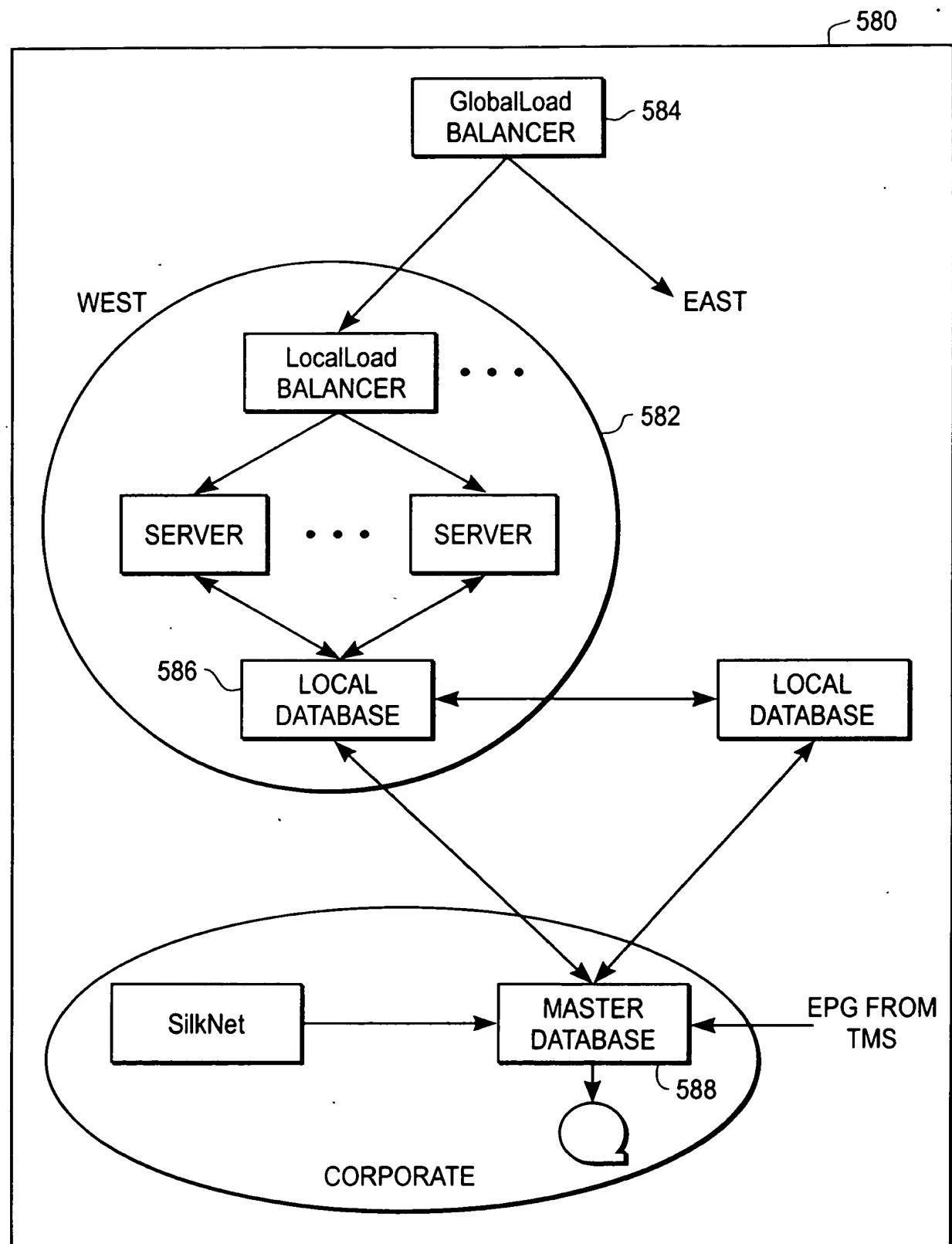


FIG. 31

www.fox.com

604

TONIGHT ON FOX

(P) 8 pm/7e That '70s Show  
(P) 8:30pm/7:30 Greed: The Series  
(P) 9pm/8e Ally McBeal Schedule

HERE IT COMES!

608

SHOWS

Ally McBeal  
America's Most Wanted  
COPS

Family Guy  
Futurama  
Get Real  
Greed  
Guinness World Record  
King of the Hill  
MADD  
Malcolm in the Wild  
Party of Five  
That '70s Show  
The Pits

The Simpsons  
The World's Funnies  
The X-Files  
Time of Your Life  
Thus  
Wildest Police Video  
Upcoming Specials

NEVER BEEN KISS  
Rent It & Win  
Dreamy Prize

Don't miss the return of Get Real.  
Wednesday at 1 PM/10C  
Always on FOX.com

600

Family Guy

We know you've been hard up trying to find something to do since Family Guy went on hiatus (Brian fell off the wagon). Wait no longer! Family Guy returns Tuesday at 8:30 PM/7:30 C.

GREED

Greed is Good

One of the Seven Deadly Sins was never so profitable. On tonight's '70s Theme Special Edition of Greed: The Series, only the most misery gots the largest prize in the history of game shows.



CONFIRMATION MESSAGE

FOX

Ally McBeal will be recorded on your ReplayTV system tonight at 9PM.

Thanks for using ReplayTV!



602

FIG. 32

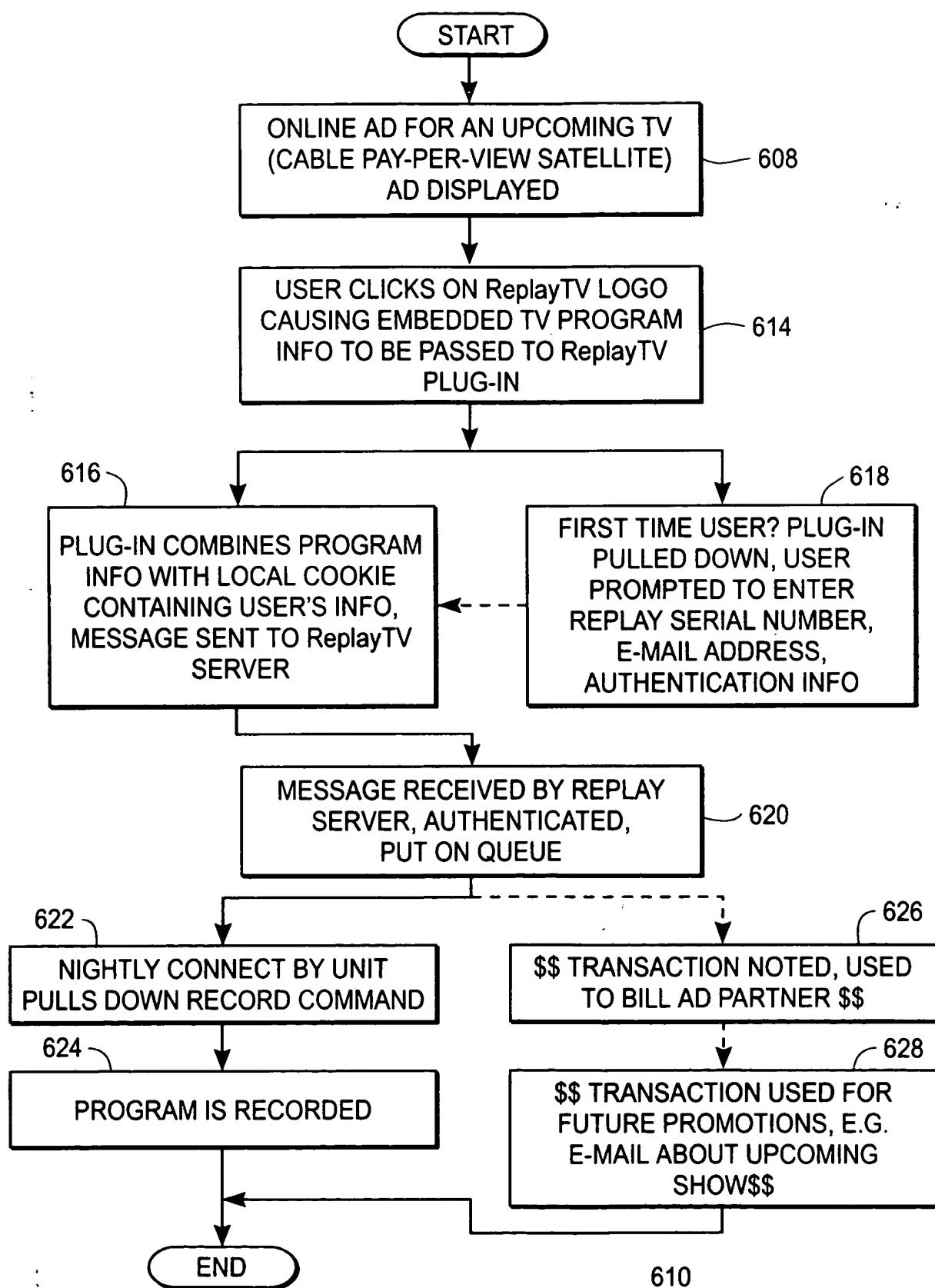


FIG. 33

610